



# SHARP®

MODEL

## LC-32D53X LC-37D53X

LCD COLOUR TELEVISION

OPERATION MANUAL



# AQUOS



**DVB**  
Digital Video  
Broadcasting

**DOLBY**  
DIGITAL

**HDMI**<sup>TM</sup>  
HIGH-DEFINITION MULTIMEDIA INTERFACE

**AUDYSSEY**  
SPATIAL EQ







# LC-32D53X LC-37D53X

## LCD COLOUR TELEVISION

### OPERATION MANUAL

## Dear SHARP customer

Thank you for your purchase of the SHARP LCD colour TV product. To ensure safety and many years of trouble-free operation of your product, please read the Important Safety Precautions carefully before using this product.

## Contents

<b>Dear SHARP customer</b> .....	<b>1</b>	<b>Basic adjustment settings</b> .....	<b>17</b>
<b>Contents</b> .....	<b>1</b>	Menu operation buttons.....	17
<b>Trademarks</b> .....	<b>2</b>	On-Screen Display.....	17
<b>Important Safety Precautions</b> .....	<b>3</b>	Menu items (TV/DTV/AV) .....	18
<b>Supplied accessories</b> .....	<b>4</b>	Menu items (PC) .....	18
<b>Preparation</b> .....	<b>5</b>	Auto installation .....	19
Inserting the batteries .....	5	Programme setup .....	19
Using the remote control unit.....	5	Auto search.....	19
Cautions regarding remote control unit.....	5	Manual setting for each channel .....	20
Attaching the stand.....	6	Search tuning .....	20
Setting the TV .....	7	Fine tuning.....	20
Basic connection .....	8	Colour system .....	20
Connecting to an antenna.....	8	Sound system (Broadcasting system) .....	21
Connecting to the AC outlet .....	8	Skipping channels .....	21
Setting the TV on the wall .....	9	Sort.....	21
Removing the stand.....	9	Label.....	22
<b>Part names</b> .....	<b>10</b>	Erase Programme .....	22
TV (Front).....	10	AV MODE selection .....	23
TV (Rear).....	11	OPC (Optical Picture Control) setting .....	23
Remote control unit .....	12	Picture adjustments .....	24
<b>Watching TV</b> .....	<b>13</b>	Advanced .....	25
Turning on the power.....	13	Colour temperature .....	25
Turning off the power.....	13	Fine Motion Advanced.....	25
Simple button operations for changing		Film Mode .....	25
channels.....	13	Black.....	25
Using Flashback (S) on the remote		3D-Y/C .....	26
control unit .....	14	Monochrome .....	26
Using MPX on the remote control unit.....	14	Audio adjustment.....	26
Simple button operation for changing		Surround.....	27
volume/sound .....	15	Power Control .....	27
Sleep timer .....	15		
ANALOG/DTV/RADIO buttons .....	16		

## Contents

<b>Basic adjustment settings (Digital).....</b>	<b>29</b>	<b>Useful features .....</b>	<b>51</b>
DTV input mode menu items.....	29	Dual screen functions .....	51
Selecting DTV mode .....	29	Teletext function .....	52
EPG.....	30	Teletext language setting .....	54
Selecting a programme using EPG .....	30	Freezing images.....	54
Programme Guide .....	32	Output Select .....	54
Info .....	32	<b>Using external equipment.....</b>	<b>55</b>
Favourite Programme List.....	32	Displaying an external equipment image .....	55
Programme List .....	33	Displaying a DVD image (Example) .....	55
Favourite & Lock.....	33	Connecting a VCR .....	55
Parental Rate.....	33	Connecting a DVD player .....	56
Installation .....	34	Connecting a game console or camcorder .....	57
Auto Search.....	34	Connecting a Digital TV STB (Set Top Box).....	57
Manual Adjust.....	34	Viewing an image from a PC.....	58
Quick Search.....	35	Connecting a PC.....	58
Reset Data.....	35	Displaying an image from a PC.....	58
Video Setup.....	35	<b>Appendix .....</b>	<b>59</b>
Digital Output.....	36	Troubleshooting.....	59
Multilingual.....	36	Troubleshooting (DTV) .....	59
Time Setup .....	37	RS-232C port specifications .....	60
I-Plate Setup (Information Plate Setup).....	37	PC compatibility chart.....	61
Information .....	37	Specifications .....	62
<b>Useful adjustment settings.....</b>	<b>38</b>	Optional accessory .....	62
Password setting for child lock		<b>Dimensional drawings.....</b>	<b>63</b>
(for TV/DTV input mode) .....	38		
Input Skip .....	39		
Input Label.....	39		
Image position .....	40		
Wide Screen Signalling (WSS).....	40		
Picture aspect ratio.....	41		
Standby Mode.....	41		
Reset.....	42		
WIDE mode (for TV/AV input mode) .....	43		
WIDE mode (for PC input mode).....	44		
Language setting for on-screen display.....	45		
Demo .....	45		
DNR (Digital Noise Reduction).....	46		
Input Select .....	46		
Output Volume Select.....	47		
Audio Only .....	47		
Game Play Time .....	48		
Colour system setting .....	48		
HDMI Setup.....	49		
PC Setup.....	49		
Input Signal (PC input mode only).....	49		
Adjusting the PC image automatically.....	50		
Adjusting the PC image manually .....	50		

## Trademarks

- The DVB logo is the registered trademark of the Digital Video Broadcasting - DVB - project.



- Manufactured under license from Dolby Laboratories.

- "HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC."



## Important Safety Precautions

- **Cleaning** — Unplug the AC cord from the AC outlet before cleaning the product. Use a damp cloth to clean the product. Do not use liquid cleaners or aerosol cleaners.



- **Water and moisture** — Do not use the product near water, such as bathtub, washbasin, kitchen sink, laundry tub, swimming pool and in a wet basement.



- **Do not place vases or any other water-filled containers on this product.** The water may spill onto the product causing fire or electric shock.



- **Stand** — Do not place the product on an unstable cart, stand, tripod or table. Doing so can cause the product to fall, resulting in serious personal injuries as well as damage to the product. Use only a cart, stand, tripod, bracket or table recommended by the manufacturer or sold with the product. When mounting the product on a wall, be sure to follow the manufacturer's instructions. Use only the mounting hardware recommended by the manufacturer.



- **When relocating the product** placed on a cart, it must be moved with utmost care. Sudden stops, excessive force and uneven floor surface can cause the product to fall from the cart.



- **Ventilation** — The vents and other openings in the cabinet are designed for ventilation. Do not cover or block these vents and openings since insufficient ventilation can cause overheating and/or shorten the life of the product. Do not place the product on a bed, sofa, rug or other similar surface, since they can block ventilation openings. This product is not designed for built-in installation; do not place the product in an enclosed place such as a bookcase or rack, unless proper ventilation is provided or the manufacturer's instructions are followed.



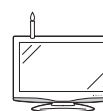
- The LCD panel used in this product is made of glass. Therefore, it can break when the product is struck forcefully or with a sharp object. If the LCD panel is broken, be careful not to be injured by broken glass.



- **Heat sources** — Keep the product away from heat sources such as radiators, heaters, stoves and other heat-generating products (including amplifiers).



- To prevent fire, never place any type of candle or naked flames on the top or near the TV set.



- To prevent fire or shock hazard, do not place the AC power cord under the TV set or other heavy items.



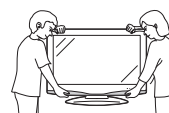
- Do not place heavy objects on this product or stand on it. Doing so could cause injury if the product overturns. Take special care near children and pets.



The LCD panel is a very high technology product with 3,147,264 thin film transistors, giving you fine picture details. Due to the very large number of pixels, occasionally a few non-active pixels may appear on the screen as a fixed point of blue, green or red. This is within product specifications and does not constitute a fault.

### Precautions when transporting the TV

Be sure to always carry the TV by two people holding it with two hands — one hand on each side of the TV.

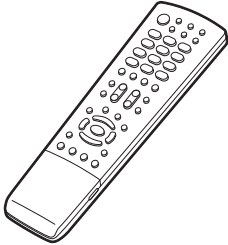

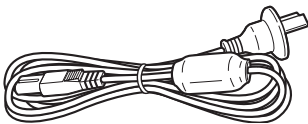
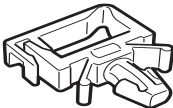
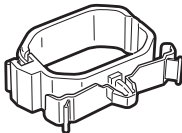
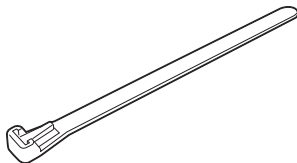



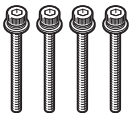


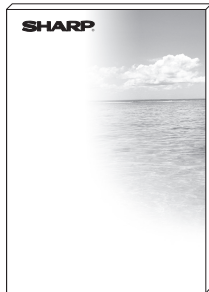


- Do not display a still picture for a long time, as this could cause an afterimage to remain.

- Install the product on the place where the AC cord can be unplugged easily from the AC outlet, or from the AC INPUT terminal on the rear of the product.

# Supplied accessories

Make sure the following accessories are provided with the product.

<p>Remote control unit</p>  <p>Page 12</p>	<p>"AAA" size battery (×2)</p>  <p>Page 5</p>	<p>AC cord</p>  <p>Page 7</p>
<p>AC cord clamp</p>  <p>Page 7</p>	<p>Cable clamp</p>  <p>Page 7</p>	<p>Cable tie</p>  <p>Page 7</p>
<p>Stand unit</p>  <p>Stand base</p>  <p>Stand post</p>  <p>Short screws (×4)</p>  <p>Long screws (×4)</p>  <p>Cloth</p>  <p>Hex key</p> <p>Page 6</p>		<p>Operation manual</p> 

## NOTE

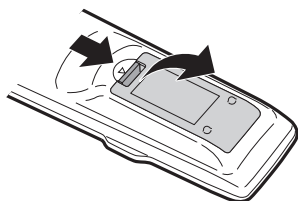
- Always use the AC cord supplied with the TV.
- The illustrations and on-screen displays in this operation manual are for explanation purposes and may vary slightly from the actual operations.
- The illustrations used throughout this manual are based on LC-37D53X.

# Preparation

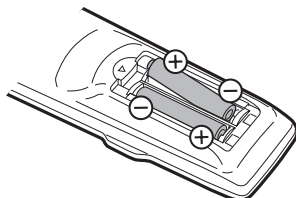
## Inserting the batteries

Before using the TV for the first time, insert two “AAA” size batteries (supplied). When the batteries become depleted and the remote control fails to operate, replace the batteries with new “AAA” size batteries.

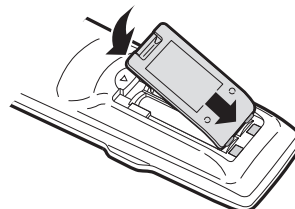
1 Open the battery cover.



2 Insert two supplied “AAA” size batteries.



3 Close the battery cover.



- Place batteries with their terminals corresponding to the (+) and (–) indications in the battery compartment.

### CAUTION

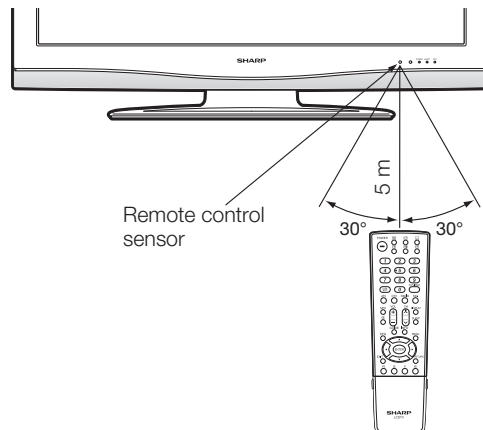
Improper use of batteries can result in chemical leakage or explosion. Be sure to follow the instructions below.

- Do not mix batteries of different types. Different types of batteries have different characteristics.
- Do not mix old and new batteries. Mixing old and new batteries can shorten the life of new batteries or cause chemical leakage in old batteries.
- Remove batteries as soon as they have worn out. Chemicals that leak from batteries can cause a rash. If you find any chemical leakage, wipe thoroughly with a cloth.
- The batteries supplied with this product may have a shorter life expectancy due to storage conditions.
- If you will not be using the remote control unit for an extended period of time, remove the batteries from it.

## Using the remote control unit

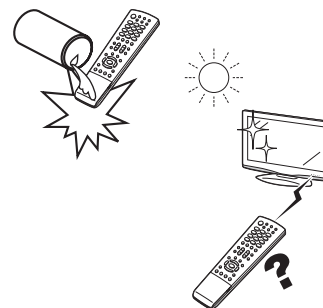
Use the remote control unit by pointing it towards the remote sensor window.

Objects between the remote control unit and sensor window may prevent proper operation.



## Cautions regarding remote control unit

- Do not subject the remote control unit to shock. In addition, do not soak the remote control unit with liquids, or place it in an area with high humidity.
- Do not install or place the remote control unit under direct sunlight. The heat may cause deformation of the unit.
- The remote control unit may not work properly if the remote sensor window of the TV is under direct sunlight or strong lighting. In such case, change the angle of the lighting or TV, or operate the remote control unit closer to the remote sensor window.



## Preparation

### Attaching the stand

- Before attaching (or detaching) the stand, unplug the AC cord from the AC INPUT terminal.
- Before performing work spread cushioning over the base area to lay the TV on. This will prevent it from being damaged.

#### CAUTION

- **Attach the stand in the correct direction.**
- **Be sure to follow the instructions. Incorrect installation of the stand may result in the TV falling over.**

1

Confirm the 8 screws supplied with the TV.

**Short screws (× 4)**  
(used in step 2)

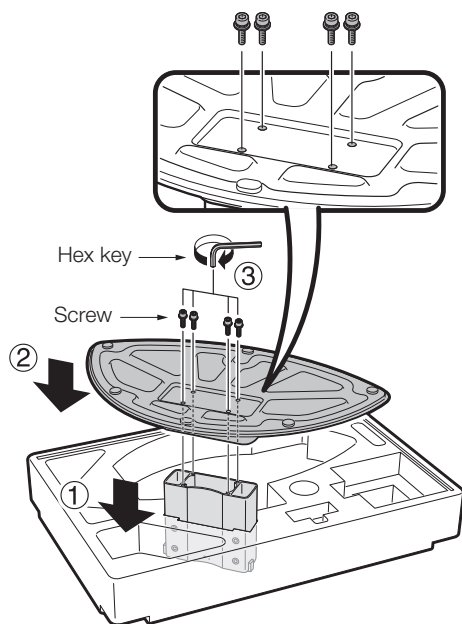


**Long screws (× 4)**  
(used in step 3)



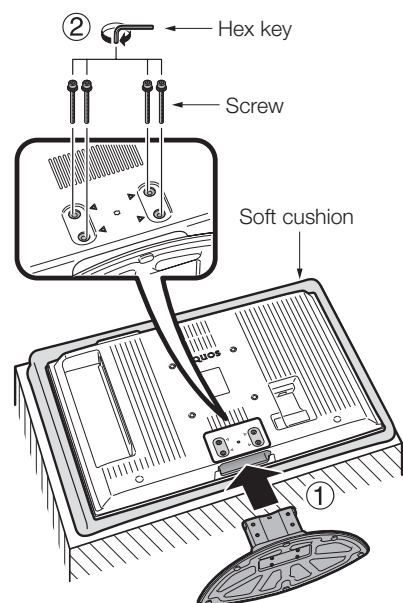
2

- ① Set the post for the stand unit onto the box.
- ② Attach the base to the post.
- ③ Insert and tighten the 4 screws into the 4 holes on the bottom of the base.



3

- ① Insert the stand into the openings on the bottom of the TV.
- ② Insert and tighten the 4 screws into the 4 holes on the rear of the TV.



#### NOTE

- To detach the stand, perform the steps in reverse order.

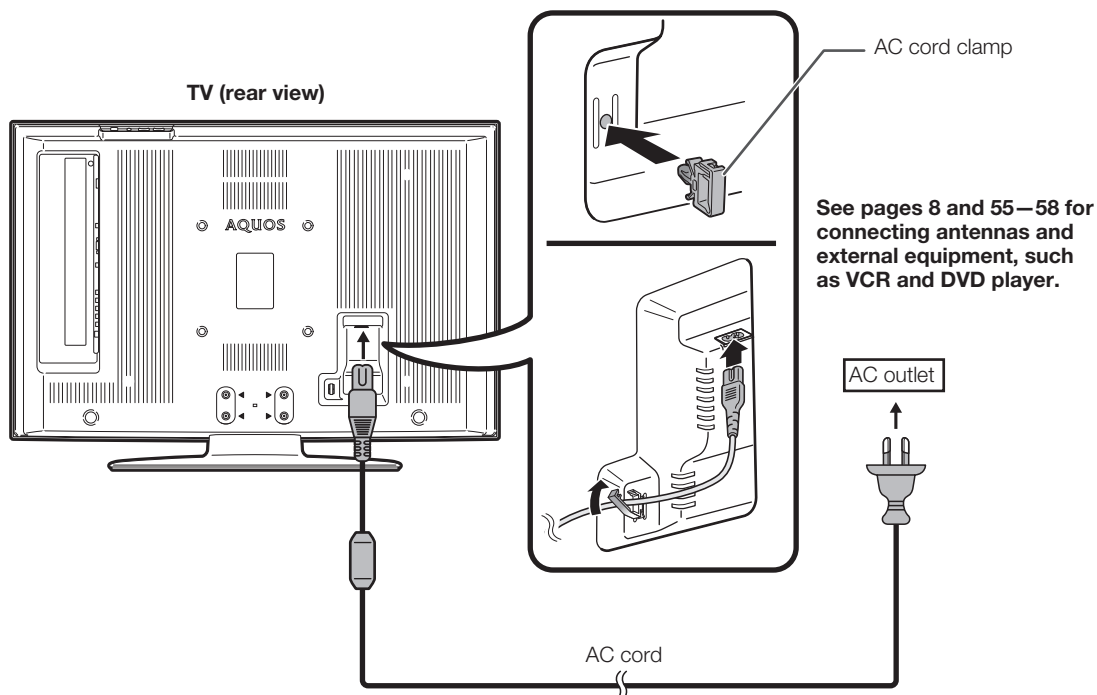
## Preparation

### Setting the TV

#### Notes on installing the TV

- Avoid direct sunlight and place the TV in a well-ventilated location.
- Place the TV in a level location.

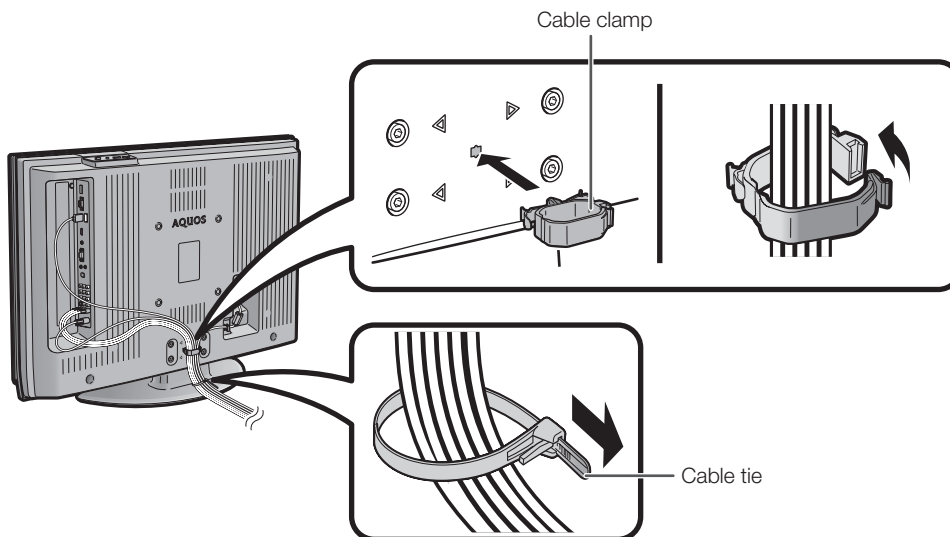
#### 1 Connecting the AC cord, antenna, and external equipment to the TV



- Place the TV close to the AC outlet, and keep the power plug within reach.

#### 2 Bundling the cables

Insert the cable clamp in the hole on the TV as shown.



#### CAUTION

- TO PREVENT RISK OF ELECTRIC SHOCK, DO NOT TOUCH UN-INSULATED PARTS OF ANY CABLES WITH THE AC CORD CONNECTED.

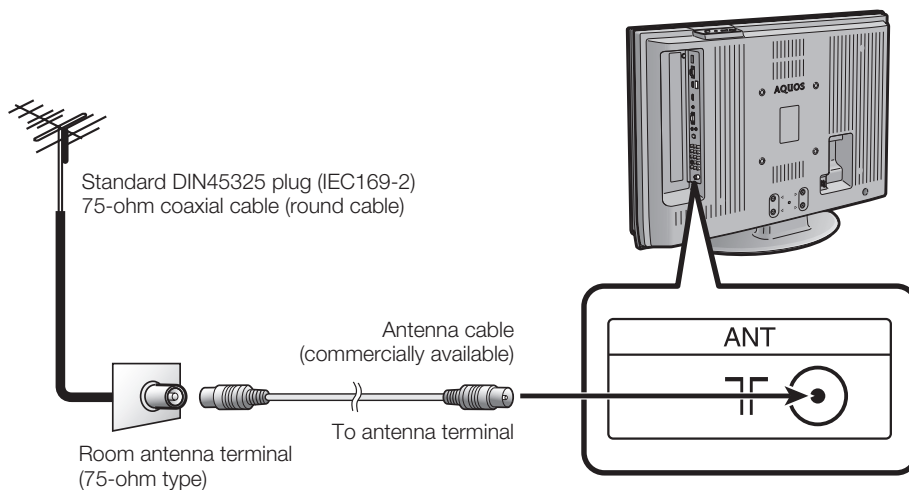
## Preparation

Simple operations for watching a TV programme

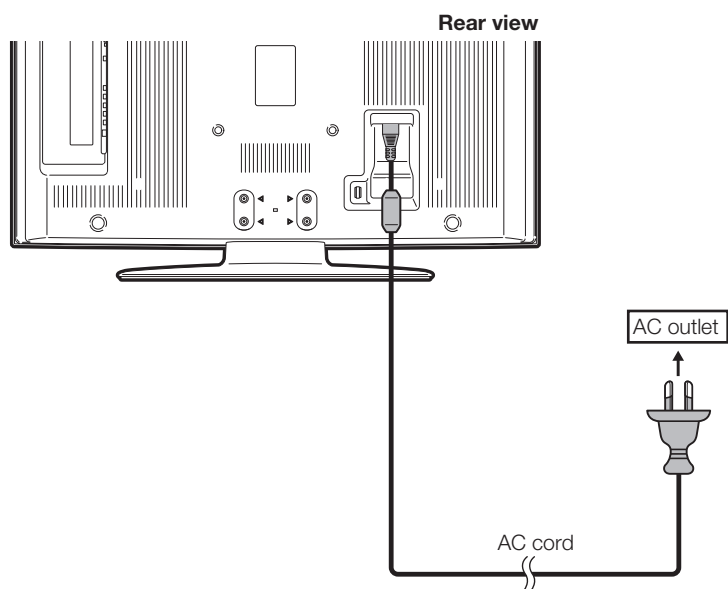
### Basic connection

#### Connecting to an antenna

To enjoy a clearer picture, use an outdoor antenna. The following is a brief explanation of the types of connections that are used for coaxial cable.



#### Connecting to the AC outlet



#### NOTE

- Always turn off the power of the TV when connecting the AC cord.
- Disconnect the AC cord from the AC outlet if the TV will not be used for a long period of time.

## Preparation

### Setting the TV on the wall

- You can mount the TV on the wall, using the optional AN-37AG2 bracket.
- For details, refer to the instructions supplied with the optional bracket.

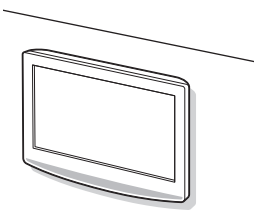
#### CAUTION

- **This TV should be mounted on the wall only with the AN-37AG2 (SHARP) wall mount bracket. The use of other wall mount brackets may result in an unstable installation and may cause serious injuries.**
- **Installing the Liquid Crystal Television requires special skill that should only be performed by qualified service personnel. Customers should not attempt to do the work themselves. SHARP bears no responsibility for improper mounting or mounting that results in accident or injury.**

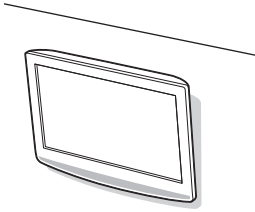
#### <Example>

##### Hanging on the wall

AN-37AG2 wall mount bracket.  
(See the bracket instructions for details.)



Vertical mounting



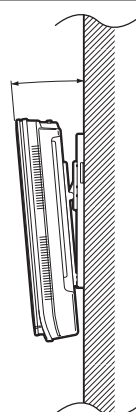
Angular mounting

##### Regarding the angle when mounting the TV on the wall

- The maximum angle to which you can tilt the wall-mounted TV is as follows. Do not tilt it more than the maximum angle.

LC-32D53X	0°, 5°, 10°
LC-37D53X	0°, 5°

- Tilt the wall-mounted TV slowly when adjusting its angle.



### Removing the stand

For wall mounting with the optional bracket, remove the stand.

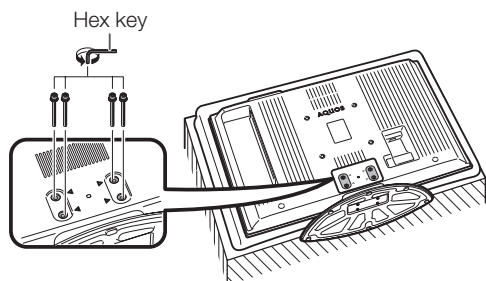
#### Before detaching/attaching the stand

- Before detaching (or attaching) the stand, unplug the AC cord from the AC outlet.
- Remove all terminal covers and connected cables.
- Lay the TV down on cushioning (such as a blanket) over a table.
- Make sure two or more people perform the operation.

#### CAUTION

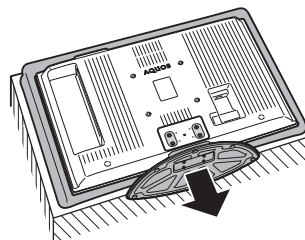
- **Do not remove the stand from the TV unless using an optional bracket to mount it.**

1



Unfasten the four screws used to secure the stand in place.

2



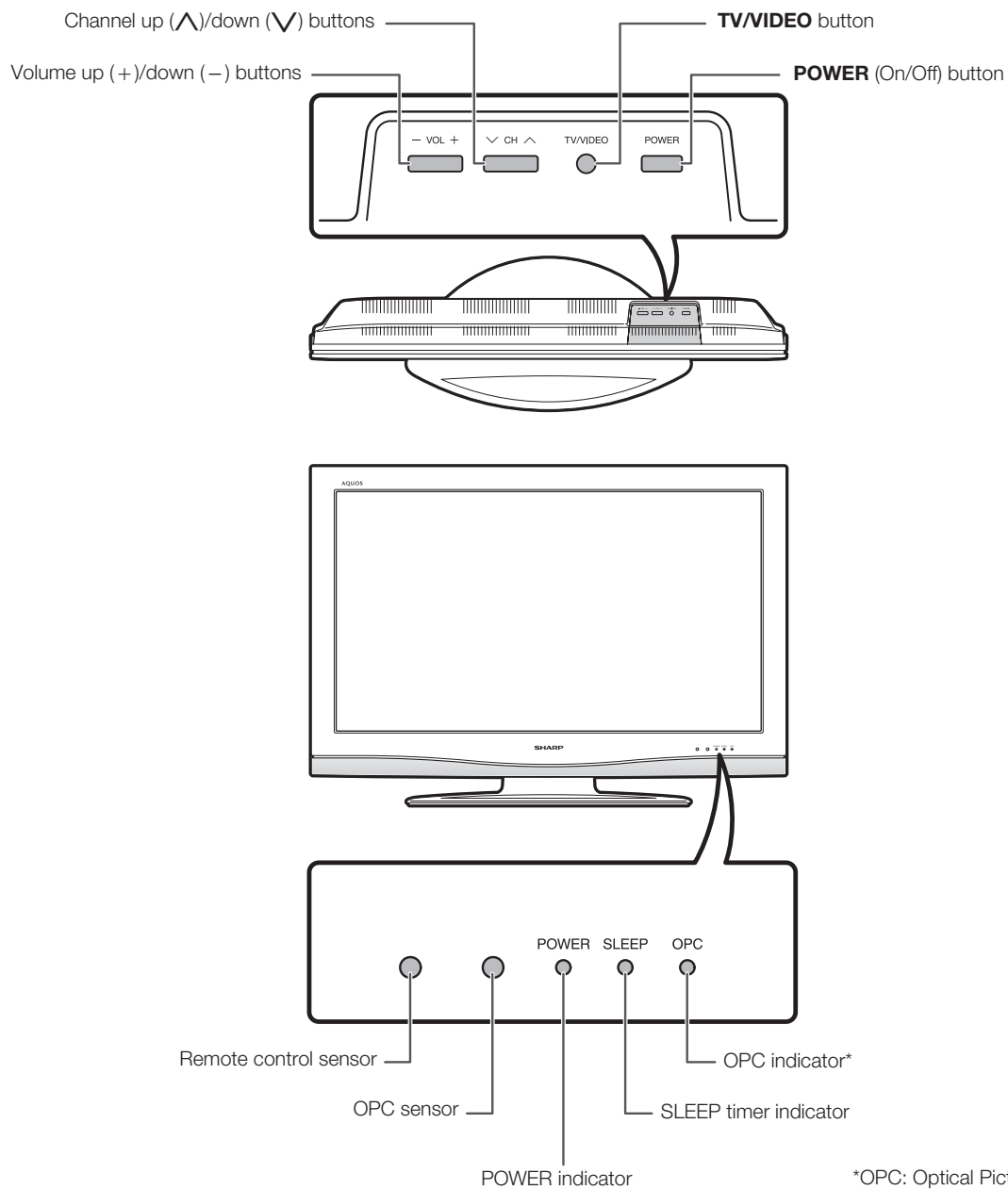
Detach the stand from the TV.  
(Hold the stand so it will not drop from the edge of the base area.)

#### NOTE

- To attach the stand, perform the above steps in reverse order.

# Part names

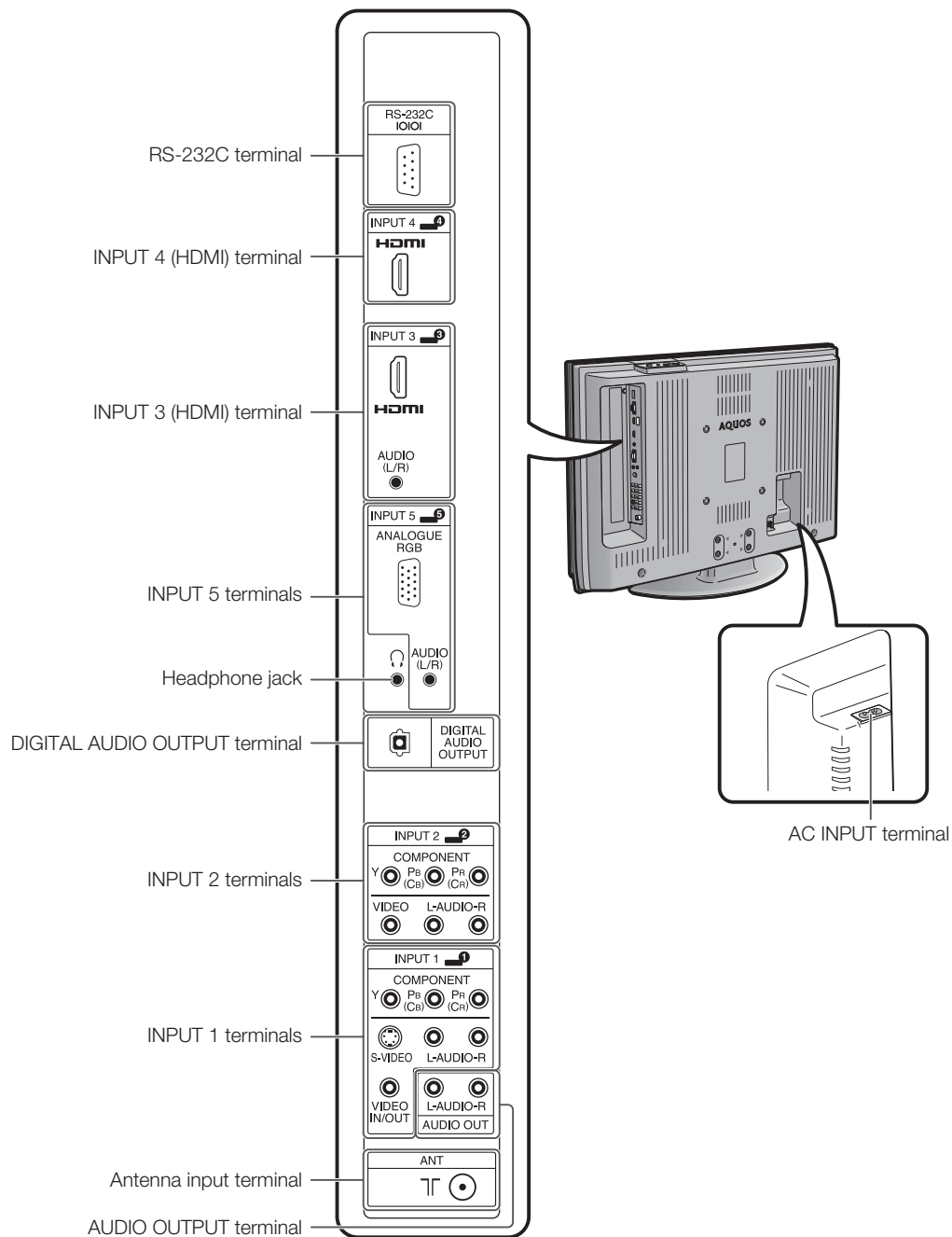
## TV (Front)



\*OPC: Optical Picture Control  
(See page 23.)

## Part names

### TV (Rear)



#### Regarding the headphone jack

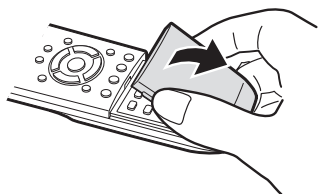
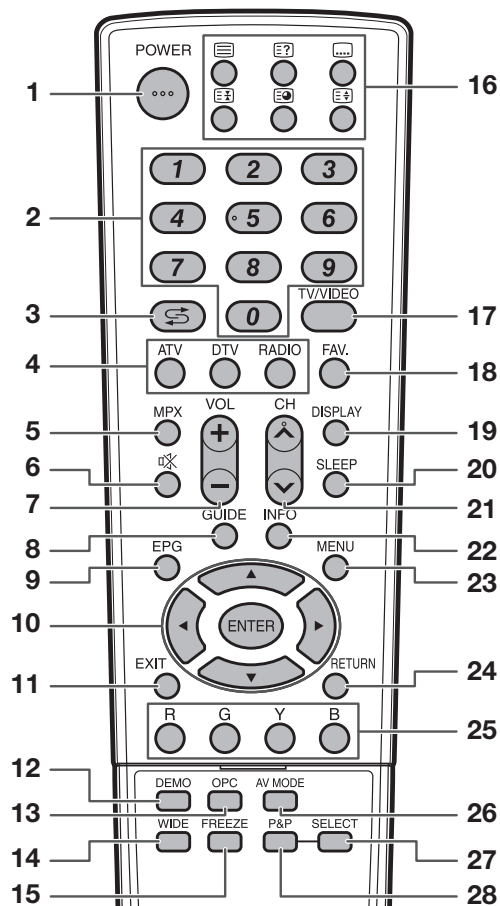
- Use headphones with a stereo mini plug (Ø 3.5 mm).
- Be sure to unplug headphones from the jack when they are not in use.
- The speakers do not output volume when headphones are plugged in.
- Audio adjustments (page 26) do not affect the audio of connected headphones.
- You can set the volume to different levels for each input source.

#### Volume display when headphones are plugged in



## Part names

### Remote control unit



#### NOTE

- When using the remote control unit, point it at the TV.

- 1 POWER (STANDBY/ON)**  
To switch the power on and off. (See page 13.)
- 2 0 – 9**  
TV/DTV/External input mode: Set the channel. (See page 13.)  
TELETEXT mode: Set the page. (See pages 13, 52 and 53.)
- 3 ↶ (Flashback)**  
Press to return to the previous channel or external input mode. (See page 14.)
- 4 ATV**  
Press to access ANALOG mode. (See page 16.)  
**DTV**  
Press to access DTV mode. (See page 16.)  
**RADIO**  
Press to access RADIO mode. (See page 16.)
- 5 MPX**  
Select the sound multiplex mode. (See page 14.)

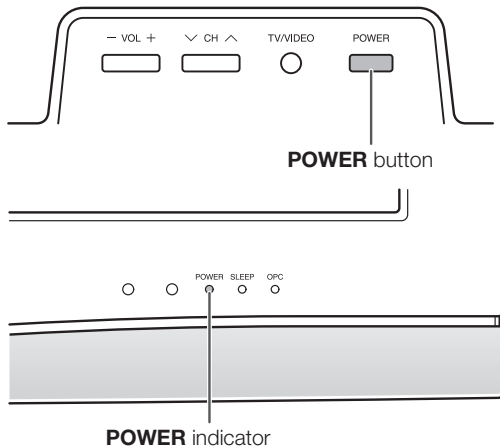
- 6 🔇 (Mute)**  
Mute the sound. (See page 15.)
- 7 VOL + /VOL –**  
Set the volume. (See page 15.)
- 8 GUIDE**  
DTV mode: Display the programme list. (See page 32.)
- 9 EPG**  
DTV: To display EPG (Electronic Programme Guide) screen. (See page 30 to 31.)
- 10 ▲/▼/◀/▶ (Cursor)**  
Select a desired item on the setting screen. (See pages 17 and 29.)  
**ENTER**  
Execute a command.
- 11 EXIT**  
Turn off the On-Screen Display.
- 12 DEMO**  
Press to show Fine Motion Advanced demonstration in a split screen format. (See page 45.)
- 13 OPC**  
To switch Optical Picture Control on and off. (See page 23.)
- 14 WIDE**  
Change the wide image mode. (See pages 43 and 44.)
- 15 FREEZE**  
Freeze a motion picture on the screen. (See page 54.)
- 16 [Icon] (TELETEXT)**  
ANALOGUE mode: Select the TELETEXT mode. (all TV image, all TEXT image, TV/TEXT image) (See pages 52 and 53.)  
DTV mode: Select the TELETEXT mode. (all TV image, TEXT image)  
**[Icon] (Reveal hidden for TELETEXT)**  
TELETEXT mode: Display hidden characters. (See page 52.)  
**[Icon] (SUBTITLE for TELETEXT)**  
TV/INPUT mode: To turn the subtitles on and off. (See page 53.)  
**[Icon] (Hold)**  
TELETEXT mode: Stop updating Teletext pages automatically. Press [Icon] again to release the hold mode. (See pages 52 and 53.)  
**[Icon] (Subpage)**  
TELETEXT mode: Display the Teletext subpage directly. (See page 53.)  
**[Icon] (Top/Bottom/Full)**  
TELETEXT mode: Set the area of magnification. (See page 52.)
- 17 TV/VIDEO (INPUT SOURCE)**  
Select an input source. (TV, DTV, INPUT 1, INPUT 2, INPUT 3, INPUT 4, INPUT 5) (See pages 39, 46, 55 and 58.)
- 18 FAV.**  
DTV mode: Display the favourite programme list. (See pages 32.)
- 19 DISPLAY**  
Display the channel or input information.  
TELETEXT mode: Display the time information included in the Teletext broadcast. (See page 53.)
- 20 SLEEP**  
Set the Sleep timer. (See page 15.)
- 21 CH ▲/CH ▼**  
TV/DTV input mode: Select the channel. (See page 13.)  
TELETEXT mode: Select the page. (See pages 52 and 53.)
- 22 INFO**  
DTV mode: Display the programme information. (See page 32.)
- 23 MENU**  
Display the menu screen. (See page 17.)
- 24 RETURN**  
MENU mode: Return to the previous menu screen. (See pages 17 and 29.)
- 25 Colour (Red/Green/Yellow/Blue)**  
TELETEXT mode: Select a page. (See page 52.)
- 26 AV MODE**  
Select an audio and video setting. (See page 23.)
- 27 SELECT**  
To select either screen to be active in Dual screen mode.
- 28 P&P**  
Set the dual picture mode. Press **P&P** again to return to normal view. (See page 51.)

# Watching TV

## Turning on the power

Press **POWER** on the TV.

- **POWER indicator (Green):** The TV is on. (After a few seconds, an image appears with sound.)
- After turning the power "ON" by pressing **POWER** on the TV, you can turn the power ON/OFF by pressing **POWER** on the remote control.



## Turning off the power

Press **POWER** on the remote control.

- The TV enters standby mode and the image on the screen disappears.
- The POWER indicator on the TV changes from green to red.

Press **POWER** on the TV.

- The POWER indicator on the TV turns off.
- When the TV is turned off by **POWER** on the TV, you cannot turn on the power by pressing **POWER** on the remote control.

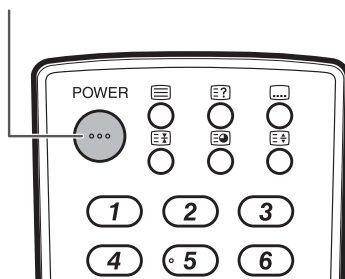
### POWER indicator

Off	Power off
Red	The TV is in standby mode.
Green	The TV is on.

### NOTE

- If you are not going to use this TV for a long period of time, be sure to remove the AC cord from the AC outlet.
- Minor power is consumed when the unit is in standby mode.

**POWER button**

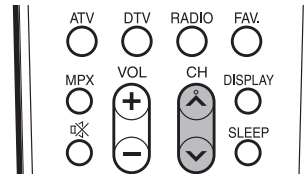


## Simple button operations for changing channels

You can change channels in several ways.

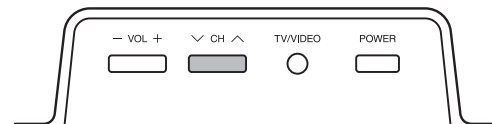
### Using CH $\wedge$ / $\vee$ on the remote control unit

- Press **CH $\wedge$**  to increase the channel number.
- Press **CH $\vee$**  to decrease the channel number.



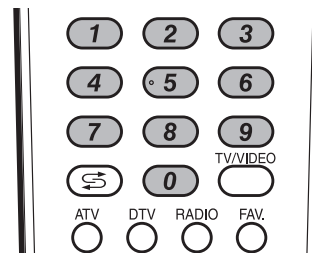
### NOTE

- **CH $\wedge$ / $\vee$**  on the TV operates the same as **CH $\wedge$ / $\vee$**  on the remote control unit.



### Using 0 – 9 on the remote control unit

Select the channels directly by pressing buttons **0** to **9**.



### EXAMPLE

To select a 1-digit channel (e.g. channel 2):

- Press **0**, followed by **2**.

To select a 2-digit channel (e.g. channel 12):

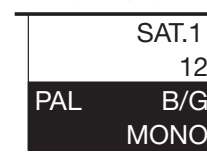
- Press **1**, followed by **2**.

### When viewing Teletext information

View a page directly which is 3-digit page number from 100 to 899 by pressing buttons **0** to **9**.

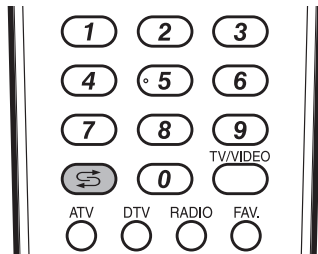
### Channel display

(Example)



## Watching TV

### Using Flashback (↶) on the remote control unit

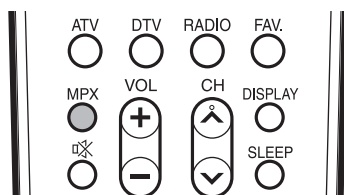


Press **↶** to switch the currently tuned channel to the previously tuned channel.  
Press **↶** again to switch back to the currently tuned channel.

Press **↶** to toggle between the currently selected input source and the previously selected one.

Press **↶** to return to the previous page in TELETEXT mode.

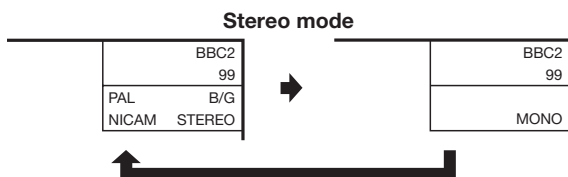
### Using MPX on the remote control unit



#### In the NICAM TV broadcasts

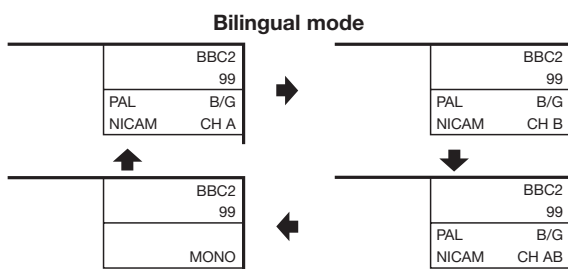
##### When receiving a stereo signal

Each time you press **MPX**, the mode switches between NICAM STEREO and MONO.



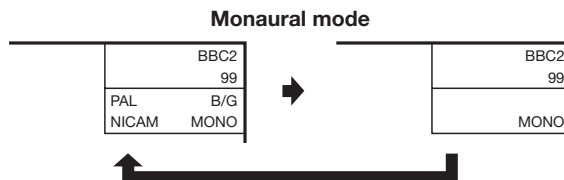
##### When receiving a bilingual signal

Each time you press **MPX**, the mode switches among NICAM CH A, NICAM CH B, NICAM CH AB and MONO.



#### When receiving a monaural signal

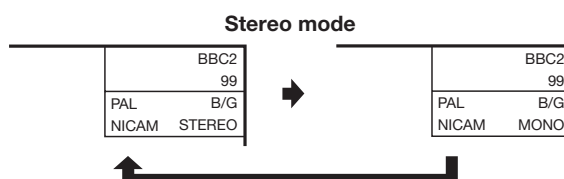
Each time you press **MPX**, the mode switches between NICAM MONO and MONO.



#### In the TV mode of A2 TV broadcasts

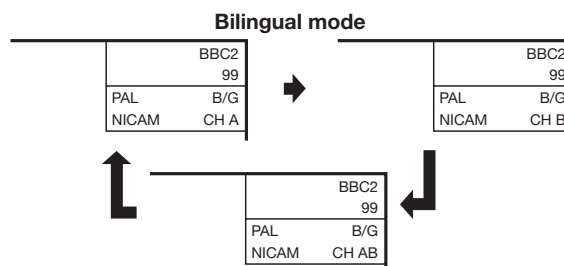
##### When receiving a stereo signal

Each time you press **MPX**, the mode switches between STEREO and MONO.



#### When receiving a bilingual signal

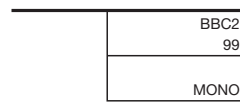
Each time you press **MPX**, the mode switches among CH A, CH B and CH AB.



#### When receiving a monaural signal

When you press **MPX**, "MONO" displays.

#### Monaural mode



#### NOTE

- "BBC2" and "99" are tentative network name and channel.

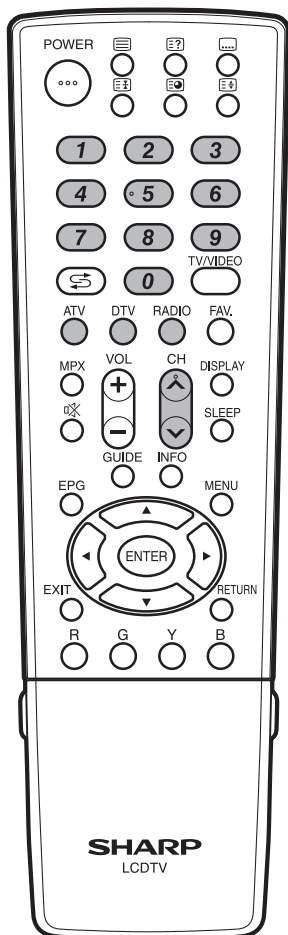


## 2007-8-6 16:36:26

## Watching TV

### ANALOG/DTV/RADIO buttons

Use the following buttons on the remote control to operate the menu.



**ANALOG:** Press to switch to analogue mode. After switching from DTV, radio or external input mode to analogue mode, the TV jumps to the most recently viewed analogue channel.

**DTV:** Press to switch to DTV mode. After switching from analogue, radio or external input mode to DTV mode, the TV jumps to the most recently viewed DTV channel.

**RADIO:** Press to switch to radio mode. After switching from analogue, DTV or external input mode to radio mode, the TV jumps to the most recently tuned radio channel.

### When you watch the TV for the first time

When the TV powers on for the first time after purchase, perform the auto installation.

#### Analogue TV

You can run the auto installation to set channels automatically.

- 1 To watch the analogue TV, select "Auto Installation" from Setup menu. (See page 19.)
- 2 After setting the channels, you can select a channel using **CH**  $\wedge/\vee$  or **0-9** on the remote control unit. (See page 13.)

#### DTV

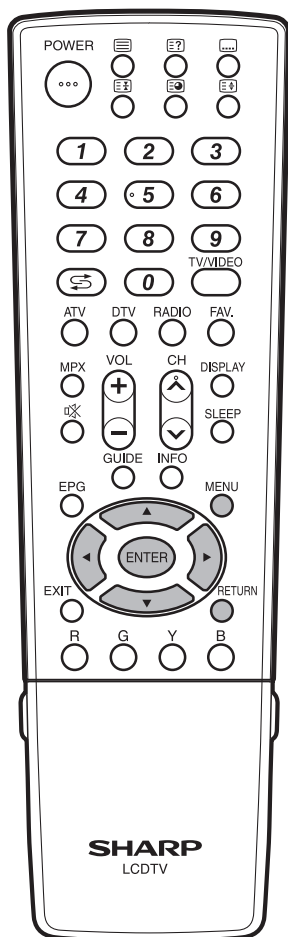
When the TV accesses to DTV mode for the first time, you need to run the auto search. To scan all available services in your area, follow the procedures below.

- 1 To watch DTV broadcasts, select "Auto Search" from installation menu. (See page 34.)
- 2 After setting the channels, you can select a channel using **CH**  $\wedge/\vee$  or **0-9** on the remote control unit. (See page 13.)

# Basic adjustment settings

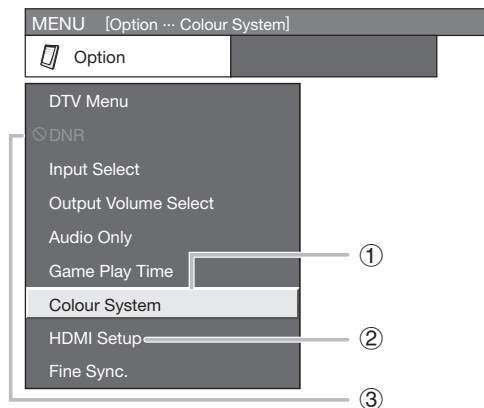
## Menu operation buttons

Use the following buttons on the remote control to operate the menu.



## On-Screen Display

(Example)



- ① Item displayed in yellow
  - This indicates the item currently selected.
  - Press **ENTER** to go to the adjustment screen for this item.
- ② Item displayed in white
  - This indicates an item can be selected.
- ③ Item displayed in grey
  - This indicates that the item cannot be selected.
  - \* There are various reasons why items cannot be selected, but the main reasons are as follows:
    1. Nothing is connected to the selected input terminal.
    2. The function is not compatible with the current input signal.

### NOTE

- The screens in the operation manual are for explanation purposes (some are enlarged, others cropped) and may vary slightly from the actual screens.

**MENU:** Press to open or close the menu screen.

**▲/▼/◀/▶:** Press to select a desired item on the screen or adjust a selected item.

**ENTER:** Press to go to the next step or complete the setting.

**RETURN:** Press to return to the previous step.



The bar above is an operational guide for the remote control. The bar will change in accordance with each menu setting screen.



## Basic adjustment settings

### Menu items (TV/DTV/AV)

List of menu items to help you with operations

#### Picture

AV Mode .....	Page 23
OPC .....	Page 23
Backlight .....	Page 24
Contrast .....	Page 24
Brightness .....	Page 24
Colour .....	Page 24
Tint .....	Page 24
Sharpness .....	Page 24
Advanced	
Colour Temp. ....	Page 25
Fine Motion Advanced .....	Page 25
Film Mode .....	Page 25
Black .....	Page 25
3D-Y/C .....	Page 26
Monochrome .....	Page 26
Reset .....	Page 24

#### Audio

AV Mode .....	Page 23
Treble .....	Page 26
Bass .....	Page 26
Balance .....	Page 26
Surround .....	Page 27
Reset .....	Page 26

#### Power Control

No Signal Off .....	Page 27
No Operation Off .....	Page 28
Ecology .....	Page 28

#### Setup

Auto Installation .....	Page 19
Programme Setup .....	Pages 19-22
Child Lock .....	Page 38
Input Skip .....	Page 39
Input Label .....	Page 39
Position .....	Page 40
WSS .....	Page 40
4:3 Mode .....	Page 41
Standby Mode .....	Page 41
Language .....	Page 45
Text Language .....	Page 54
Reset .....	Page 42

#### Option

DNR .....	Page 46
Input Select	
Input1 .....	Page 46
Input2 .....	Page 46
Output Volume Select .....	Page 47
Audio Only .....	Page 47
Game Play Time .....	Page 48
Colour System .....	Page 48
HDMI Setup .....	Page 49

### Menu items (PC)

List of menu items to help you with operations

#### Picture

AV Mode .....	Page 23
OPC .....	Page 23
Backlight .....	Page 24
Contrast .....	Page 24
Brightness .....	Page 24
Advanced	
Colour Temp. ....	Page 25
Black .....	Page 25
Reset .....	Page 24

#### Audio

AV Mode .....	Page 23
Treble .....	Page 26
Bass .....	Page 26
Balance .....	Page 26
Surround .....	Page 27
Reset .....	Page 26

#### Power Control

Power Management .....	Page 28
No Operation Off .....	Page 28
Ecology .....	Page 28

#### Setup

Input Skip .....	Page 39
Input Label .....	Page 39
Standby Mode .....	Page 41
Language .....	Page 45
Text Language .....	Page 54
Reset .....	Page 42

#### Option

Input Select	
Input1 .....	Page 46
Input2 .....	Page 46
Output Volume Select .....	Page 47
Audio Only .....	Page 47
Game Play Time .....	Page 48
Fine Sync.	
Input Signal .....	Page 49
Auto Sync. ....	Page 50
H-Position .....	Page 50
V-Position .....	Page 50
Clock .....	Page 50
Phase .....	Page 50
Reset .....	Page 50

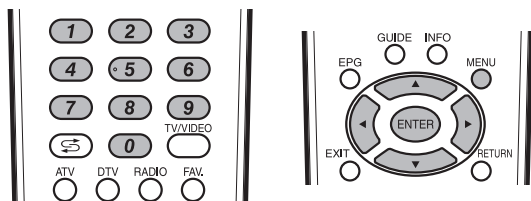
#### NOTE

- Some menu items may not be displayed depending on the selected input source.

## Basic adjustment settings (Analogue)

### Auto installation

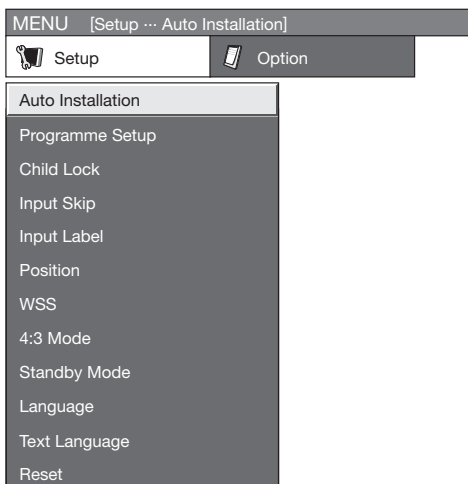
You can run auto installation again, even after setting up the preset channels.



**1** Press **MENU** and the MENU screen displays.

**2** Press **◀/▶** to select "Setup".

**3** Press **▲/▼** to select "Auto Installation", and then press **ENTER**.



**4** If you have already set the password, enter it here.

- See page 38 for setting a password.

— — — —

**5** Press **▲/▼** to select "Yes", and then press **ENTER**.

**6** Press **▲/▼** to select the desired language listed on the screen, and then press **ENTER**. Press **▲/▼** to select the desired sound system, and then press **ENTER**. You do not need to do anything during the auto search. "Search is completed." is displayed. Press **MENU** to exit.

### Programme setup

You can run the auto search procedure again at any time by accessing the Setup menu and Programme Setup.

#### Auto search

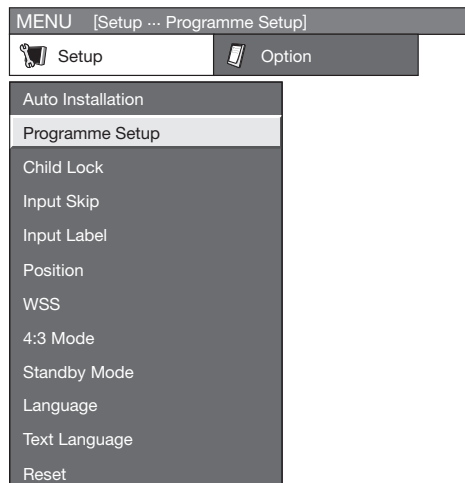
You can also automatically search by performing the procedure below. This is the same function as programme auto search in auto installation.

**1** Press **MENU** and the MENU screen displays.

**2** Press **◀/▶** to select "Setup".

**3** Press **▲/▼** to select "Programme Setup", and then press **ENTER**. If you have already set the password, enter it here.

- See page 38 for setting a password.



**4** Press **▲/▼** to select "Auto Search", and then press **ENTER**.

**5** Press **▲/▼** to select "Yes", and then press **ENTER**. Press **▲/▼** to select the desired sound system, and then press **ENTER**. "Search is completed." is displayed. Press **MENU** to exit.

## Basic adjustment settings (Analogue)

### Manual setting for each channel

You can set some channel items manually. They are Search, Fine (TV frequency), Colour System, Sound System, and Skip.

**1** Press **MENU** and the MENU screen displays.

**2** Press **◀▶** to select "Setup".

**3** Press **▲/▼** to select "Programme Setup", and then press **ENTER**.  
If you have already set the password, enter it here.

- See page 38 for setting a password.

**4** Press **▲/▼** to select "Manual Adjust", and then press **ENTER**.

**5** Press **▲/▼** to select "Yes", and then press **ENTER**.

#### Programme Setup "Manual Adjust" menu

01 SAT.1	02 PR07	03 KABEL		

You can select one of the following settings.

- ① **Search** (See page 20.)
- ② **Fine** (See page 20.)
- ③ **Colour system** (See page 20.)
- ④ **Sound system** (See page 21.)
- ⑤ **Skip** (See page 21.)

### Search tuning

**1** Press **▲/▼/◀▶** to select the channel you want to edit, and then press **ENTER**.  
• The selected channel information displays.

**2** Press **▲/▼** to select "Search", and then press **ENTER**.

MENU [Setup ... Programme Setup]	
Search	
Fine	179.25 MHz
Colour System	NEXT
Sound System	
Skip	

**3** As **ENTER** is pressed, the next channels will be searched in order.

### Fine tuning

**1** Press **▲/▼/◀▶** to select the channel you want to edit, and then press **ENTER**.

- The selected channel information displays.

**2** Press **▲/▼** to select "Fine", and then press **ENTER**.

**3** Press **◀▶** to adjust the frequency, and then press **RETURN** or **MENU**.

- Adjust while checking the background picture as a reference.

Search	
Fine	179.25 MHz
Colour System	
Sound System	
Skip	

- Instead of the method above, you can also set by directly entering the frequency number of the channel with **0 – 9**.
- When setting a frequency on the "Fine" screen, the last figure of the frequency needs to be "0" or "5".

#### EXAMPLE

- 179.25 MHz: Press **1** → **7** → **9** → **2** → **5**.
- 49.25 MHz: Press **0** → **4** → **9** → **2** → **5**.

### Colour system

**1** Press **▲/▼/◀▶** to select the channel you want to edit, and then press **ENTER**.

- The selected channel information displays.

**2** Press **▲/▼** to select "Colour System", and then press **ENTER**.

- Receivable colour systems are listed.

#### Colour system menu

Search	
Fine	AUTO
Colour System	PAL
Sound System	SECAM
Skip	NTSC 3.58
	NTSC 4.43
	PAL-60

**3** Press **▲/▼** to select the optimum colour system, and then press **ENTER**.

## Basic adjustment settings (Analogue)

### Manual setting for each channel (continued)

#### Sound system (Broadcasting system)

- 1 Press **▲/▼/◀/▶** to select the channel you want to edit, and then press **ENTER**.
  - The selected channel information displays.
- 2 Press **▲/▼** to select "Sound System", and then press **ENTER**.
  - Receivable sound systems (Broadcasting systems) are listed.

##### Sound system menu

MENU [Setup ... Programme Setup]	
Search	
Fine	B/G
Colour System	D/K
Sound System	I
Skip	M

- 3 Press **▲/▼** to select the optimum sound system, and then press **ENTER**.

#### NOTE

- Check the sound system if the sound output were not correct.

#### Skipping channels

Channels with "Skip" set to "On" are passed over when using **CH▲/▼** even if selected while watching the image from the TV.

- 1 Press **▲/▼/◀/▶** to select the channel you want to edit, and then press **ENTER**.
  - The selected channel information will be displayed.
- 2 Press **▲/▼** to select "Skip", and then press **ENTER**.
  - Skip menu displays.

##### Skip menu

Search	
Fine	Off
Colour System	
Sound System	On
Skip	

- 3 Press **▲/▼** to set "Skip" to "On", and then press **ENTER**.

### Sort

Channel positions can be sorted freely.

- 1 Press **MENU** and the MENU screen displays.
- 2 Press **◀/▶** to select "Setup".
- 3 Press **▲/▼** to select "Programme Setup", and then press **ENTER**.
  - If you already set the password, enter it here.
  - See page 38 for setting a password.
- 4 Press **▲/▼** to select "Sort", and then press **ENTER**.
- 5 Press **▲/▼** to select "Yes", and then press **ENTER**.
- 6 Press **▲/▼/◀/▶** to select the channel you want to move, and then press **ENTER**.
- 7 Move it to the desired position by pressing **▲/▼/◀/▶**, and then press **ENTER**.
- 8 Repeat the steps 6 and 7 until all desired channels are sorted.

##### Sort menus

01 SAT.1 ◀▶				
01 SAT.1	02 KABEL	03	04	05
06	07	08	09	10
11	12	13	14	15
16	17	18	19	20



01 SAT.1 ◀▶ 02 KABEL				
01 SAT.1	02 KABEL	03	04	05
06	07	08	09	10
11	12	13	14	15
16	17	18	19	20



01 KABEL ◀▶				
01 KABEL	02 SAT.1	03	04	05
06	07	08	09	10
11	12	13	14	15
16	17	18	19	20

## Basic adjustment settings (Analogue)

### Label

Channels can be labelled freely.

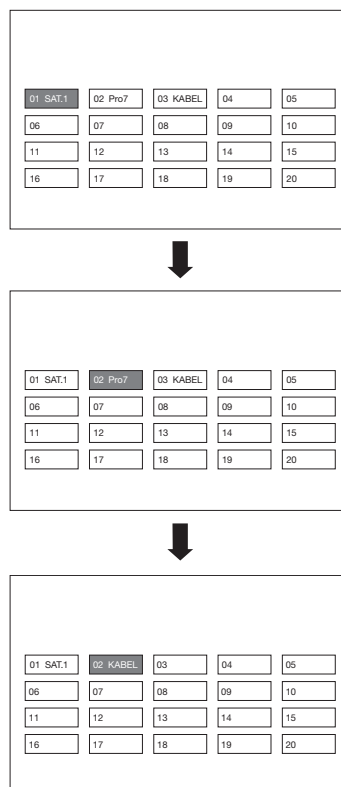
- 1 Press **MENU** and the MENU screen displays.
- 2 Press **◀/▶** to select "Setup".
- 3 Press **▲/▼** to select "Programme Setup", and then press **ENTER**.  
If you already set the password, enter it here.  
• See page 38 for setting a password.
- 4 Press **▲/▼** to select "Label", and then press **ENTER**.
- 5 Press **▲/▼** to select "Yes", and then press **ENTER**.
- 6 Press **▲/▼/◀/▶** to select the channel you want to label, and then press **ENTER**.
- 7 Press **▲/▼** to select characters and **◀/▶** to move to the desired digit, and then press **ENTER** to complete the label setting.

### Erase Programme

The individual programme can be erased.

- 1 Press **MENU** and the MENU screen displays.
- 2 Press **◀/▶** to select "Setup".
- 3 Press **▲/▼** to select "Programme Setup", and then press **ENTER**.  
If you already set the password, enter it here.  
• See page 38 for setting a password.
- 4 Press **▲/▼** to select "Erase Programme", and then press **ENTER**.
- 5 Press **▲/▼** to select "Yes", and then press **ENTER**.
- 6 Press **▲/▼/◀/▶** to select the channel you want to erase, and then press **ENTER**.
- 7 Press **ENTER** to erase the channel.  
All the subsequent programmes move up.
- 8 Repeat the steps 6 and 7 until all desired channels are erased.

### Erase programme menus



## Basic adjustment settings (Analogue/Digital)

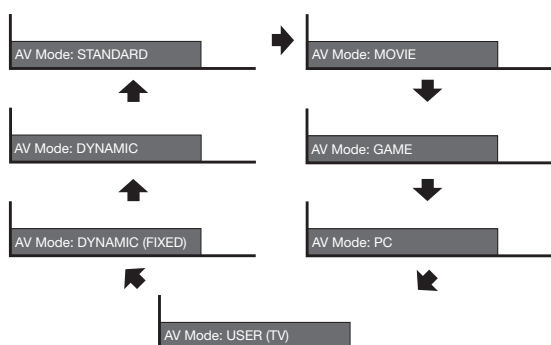
### AV MODE selection

The AV MODE function enables you to select appropriate settings for audio and video to account for the system environment which can vary due to factors like room brightness, type of programme watched or the type of image input from external equipment.

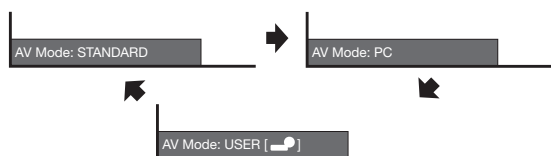
#### Using AV MODE on the remote control unit

- 1 Press **AV MODE**.
  - Present AV mode displays.
- 2 Press **AV MODE** again before the mode displayed on the screen disappears.
  - The mode changes as shown below.

#### AV input mode



#### PC input mode



#### Using AV Mode on the menu screen

- 1 Press **MENU** and the MENU screen displays.
- 2 Press **◀▶** to select "Picture".
- 3 Press **▲▼** to select "AV Mode", and then press **ENTER**.
- 4 Press **▲▼** to select the desired item, and then press **ENTER**.

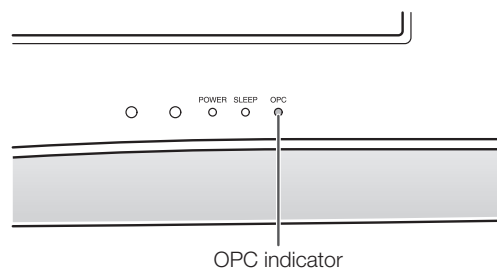
Selected item	Description
<b>STANDARD</b>	For a highly defined image in a normally bright room
<b>MOVIE</b>	For a movie
<b>GAME</b>	Lowers image brightness for easier viewing.
<b>PC</b>	For PC. (Available only when inputting an HDMI or INPUT5 signal.)
<b>USER</b>	Allows the user to customise settings as desired. You can set the mode for each input source.
<b>DYNAMIC (FIXED)</b>	Changes the image and sound settings to the factory preset values. No adjustments are allowed.
<b>DYNAMIC</b>	For a clear-cut image emphasising high contrast for sports viewing.

#### NOTE

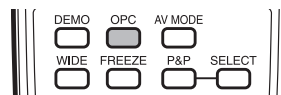
- You can select a different AV MODE item for each input mode. (For example, select STANDARD for ANALOGUE TV input and DYNAMIC for INPUT3.)

### OPC (Optical Picture Control) setting

You can set the TV to automatically adjust the screen to suitable backlight brightness according to the lighting conditions.



#### Using OPC on the remote control unit



Press **OPC** to switch the OPC function on and off.

#### OPC indicator

Light off	"Off" is selected in the OPC setting.
Lighted (Green)	"On" or "On (Display)" is selected in the OPC setting.

## Basic adjustment settings (Analogue/Digital)

### Using OPC on the menu screen

- 1 Press **MENU** and the MENU screen displays.
- 2 Press ◀/▶ to select "Picture".
- 3 Press ▲/▼ to select "OPC", and then press **ENTER**.
- 4 Press ▲/▼ to select the desired item, and then press **ENTER**.

Selected item	Description
<b>On (Display)</b>	Displays the OPC effect on the screen while adjusting the brightness of the screen.
<b>On</b>	Automatically adjusts
<b>Off</b>	The brightness is fixed at the value set in "Backlight" (See page 24).

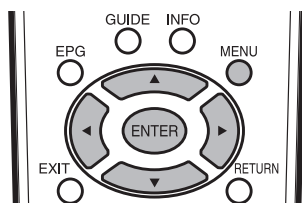
#### NOTE

- Make sure no object obstructs the OPC sensor, which could affect its ability to sense surrounding light.

## Picture adjustments

You can adjust the picture to your preference.

Follow the steps to adjust the picture.

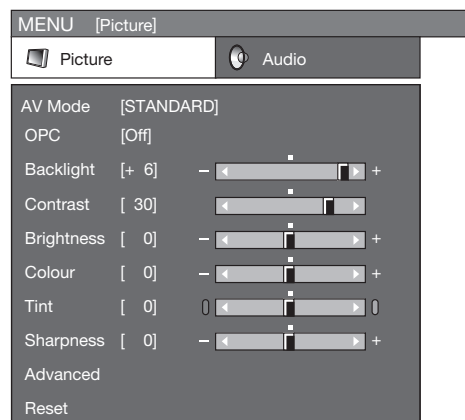


- 1 Press **MENU** and the MENU screen displays.
- 2 Press ◀/▶ to select "Picture".
- 3 Press ▲/▼ to select a specific adjustment item.
- 4 Press ◀/▶ to adjust the item to your desired position.

#### NOTE

- For resetting all adjustment items to factory preset values, press ▲/▼ to select "Reset", press **ENTER**, press ▲/▼ to select "Yes", and then press **ENTER**.
- "Backlight" cannot be adjusted when "OPC" is set to "On" or "On (Display)".

### Adjustments items



Selected item	◀ button	▶ button
<b>Backlight</b>	The screen dims	The screen brightens
<b>Contrast</b>	For less contrast	For more contrast
<b>Brightness</b>	For less brightness	For more brightness
<b>Colour</b>	For less colour intensity	For more colour intensity
<b>Tint</b>	Skin tones become purplish	Skin tones become greenish
<b>Sharpness</b>	For less sharpness	For more sharpness

#### NOTE

- Select "Advanced" and then press **ENTER** to set "Colour Temp.", "Fine Motion Advanced", "Film Mode", "Black", "3D-Y/C" or "Monochrome". See pages 25 and 26.

## Basic adjustment settings (Analogue/Digital)

### Advanced

Advanced setting enables you to set the picture adjustment in more detail. There are six options you can choose from.

#### Colour temperature

Adjusts the colour temperature to give the best white image.

- 1 Press **MENU** and the MENU screen displays.
- 2 Press **◀▶** to select "Picture".
- 3 Press **▲/▼** to select "Advanced", and then press **ENTER**.
- 4 Press **▲/▼** to select "Colour Temp.", and then press **ENTER**.
- 5 Press **▲/▼** to select the desired level, and then press **ENTER**.

Selected item	Description
High Mid-High Middle Mid-Low Low	White with bluish tone ↑↓ White with reddish tone

#### Fine Motion Advanced

Use Fine Motion Advanced to view fast-action video more clearly.

- 1 Repeat steps 1 to 3 in **Colour temperature**.
- 2 Press **▲/▼** to select "Fine Motion Advanced", and then press **ENTER**.
- 3 Press **▲/▼** to select "On", and then press **ENTER**.

Selected item	Description
On	For obtaining a clear image.
Off	Normal image.

#### NOTE

- Fine Motion Advanced may cause image noise. If this occurs, set the function to "Off".

### Film Mode

Automatically detects a film-based source (originally encoded at 24/25 frames/second, depending on the vertical frequency), analyses it then recreates each still film frame or high-definition picture quality.

- 1 Repeat steps 1 to 3 in **Colour temperature**.
- 2 Press **▲/▼** to select "Film Mode", and then press **ENTER**.
- 3 Press **▲/▼** to select "On", and then press **ENTER**.

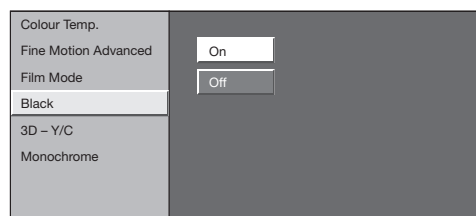
#### NOTE

- Film Mode is not selectable depending on the input signal type.

### Black

For easier viewing, change the viewing depth by selecting a level for automatically adjusting the dark portion of an image.

- 1 Repeat steps 1 to 3 in **Colour temperature**.
- 2 Press **▲/▼** to select "Black", and then press **ENTER**.
- 3 Press **▲/▼** to select "On", and then press **ENTER**.




Selected item	Description
On	For high detail in black portions.
Off	No adjustment.

## Basic adjustment settings (Analogue/Digital)

### 3D-Y/C

Provides high quality images with minimal dot crawl and cross colour noise.

- 1 Press **MENU** and the MENU screen displays.
- 2 Press **◀/▶** to select "Picture".
- 3 Press **▲/▼** to select "Advanced", and then press **ENTER**.
- 4 Press **▲/▼** to select "3D-Y/C", and then press **ENTER**.  

- 5 Press **▲/▼** to select the desired level, and then press **ENTER**.

Selected item	Description
<b>Standard</b>	Normal adjustment
<b>Fast</b>	For movie image
<b>Slow</b>	For still image
<b>Off</b>	3D-Y/C off

#### NOTE

- 3D-Y/C is not selectable depending on the input signal type.
- 3D-Y/C may not operate depending on the input signal type or noisy input signal.

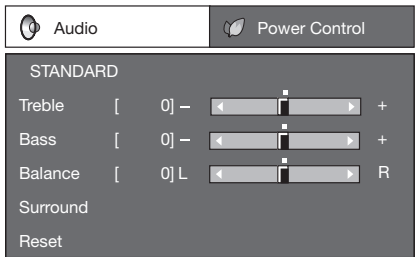
### Monochrome

For viewing a video in monochrome.

- 1 Repeat steps 1 to 3 in **3D-Y/C**.
- 2 Press **▲/▼** to select "Monochrome", and then press **ENTER**.
- 3 Press **▲/▼** to select "On", and then press **ENTER**.

### Audio adjustment

You can adjust the sound quality to your preference with the following settings.

- 1 Press **MENU** and the MENU screen displays.
- 2 Press **◀/▶** to select "Audio".  

- 3 Press **▲/▼** to select the desired menu item. Press **ENTER** to proceed if necessary.
- 4 Press **▲/▼** or **◀/▶** to select the desired item or adjust the item to the desired level. Press **ENTER** if necessary.

Selected item	◀button	▶button
<b>Treble</b>	For weaker treble	For stronger treble
<b>Bass</b>	For weaker bass	For stronger bass
<b>Balance</b>	Decrease audio from the right speaker	Decrease audio from the left speaker

#### NOTE

- For resetting all adjustment items to factory preset values, press **▲/▼** to select "Reset", press **ENTER**, press **▲/▼** to select "Yes", and then press **ENTER**.

## Basic adjustment settings (Analogue/Digital)

### Surround

When you set to On, you can enjoy surround sound, the same as if you were in a movie theatre.

Selected item	Description
On	Makes it possible to enjoy natural, realistic surround sound.
Off	Outputs the normal sound.

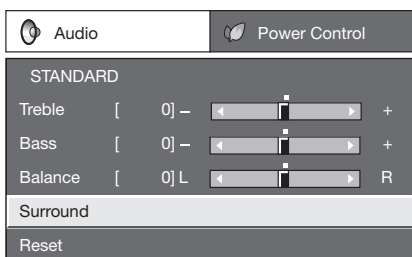
### Using Surround on the menu screen

You can produce Surround effects from the "Audio" setting.

1 Press **MENU** and the MENU screen displays.

2 Press **◀▶** to select "Audio".

3 Press **▲▼** to select "Surround", and then press **ENTER**.



4 Press **▲▼** to select "On", and then press **ENTER**.

### Power Control

Power control setting allows you to save energy.

#### No Signal Off

When set to "Enable", the power will automatically shut down if no signal inputs for 15 minutes.

1 Press **MENU** and the MENU screen displays.

2 Press **◀▶** to select "Power Control".

- Power control menu displays.

3 Press **▲▼** to select "No Signal Off", and then press **ENTER**.

4 Press **▲▼** to select "Enable".

- Five minutes before the power shuts down, remaining time displays every minute.

#### NOTE

- "Disable" is factory preset value.
- When a TV programme finishes, this function may not operate.

## Basic adjustment settings (Analogue/Digital)

### Power Management

When set, the power will automatically shut down if no signal is input for a certain time.

1 Press **MENU** and the MENU screen displays.

2 Press **◀/▶** to select "Power Control".

- Power control menu displays.

3 Press **▲/▼** to select "Power Management", and then press **ENTER**.

4 Press **▲/▼** to select "Mode 1" or "Mode 2", and then press **ENTER**.



Selected item	Description
<b>Off</b>	<ul style="list-style-type: none"> <li>No power management.</li> <li>Factory preset value.</li> </ul>
<b>Mode 1</b>	<ul style="list-style-type: none"> <li>If no signal inputs for approximately 8 minutes, the power shuts down.</li> <li>Even if you start using the PC and the signal inputs again, the TV stays off.</li> <li>The TV turns on again by pressing <b>POWER</b>. (See page 13.)</li> </ul>
<b>Mode 2</b>	<ul style="list-style-type: none"> <li>If no signal inputs for approximately 8 seconds, the power shuts down.</li> <li>When you start using the PC and the signal inputs again, the TV turns on.</li> <li>The TV turns on again by pressing <b>POWER</b>. (See page 13.)</li> </ul>

#### NOTE

- If you turn off the power by disconnecting AC cord when setting "Mode 2" in power management, the TV may not function properly after turning the power on again. In such case, press **POWER** on the remote control unit.
- Pressing **POWER** on the TV will have the same result.

### No Operation Off

When set to "Enable", the power will automatically shut down if there is no operation for 3 hours.

1 Press **MENU** and the MENU screen displays.

2 Press **◀/▶** to select "Power Control".

- Power control menu displays.

3 Press **▲/▼** to select "No Operation Off", and then press **ENTER**.

4 Press **▲/▼** to select "Enable".

- Five minutes before the power shuts down, remaining time displays every minute.

#### NOTE

- "Disable" is factory preset value.

### Ecology

When set "Yes", the TV activates the following power saving mode.

- "OPC" set to "On" (Page 23)
- "Standby Mode" set to "Mode 2" (Page 41)
- "No Signal Off" set to "Enable" (Page 27)
- "No Operation Off" set to "Enable" (Page 28)
- "Power Management" set to "Mode 1" (Page 28)

1 Press **MENU** and the MENU screen displays.

2 Press **◀/▶** to select "Power Control".

- Power control menu displays.

3 Press **▲/▼** to select "Ecology", and then press **ENTER**.

4 Press **▲/▼** to select "Yes", and then press **ENTER**.

#### NOTE

- Ecology mode cannot be deactivated by selecting "No". Each setting must be changed individually to deactivate Ecology mode.

# Basic adjustment settings (Digital)

## DTV input mode menu items

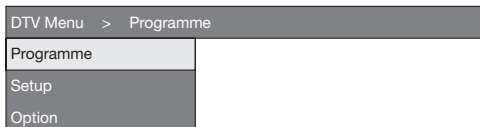
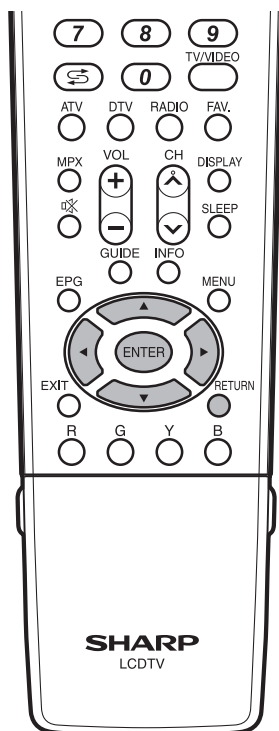
### List of DTV menu items to help you with operations

Programme	Programme List .....	Page 33
	Edit Channel	<ul style="list-style-type: none"> <li>Favourite &amp; Lock..... Page 33</li> <li>Parental Rate..... Page 33</li> </ul>
Setup	Installation	<ul style="list-style-type: none"> <li>Auto Search..... Page 34</li> <li>Manual Adjust..... Page 34</li> <li>Quick Search..... Page 35</li> <li>Reset Data..... Page 35</li> </ul>
	System Setup	<ul style="list-style-type: none"> <li>Video Setup..... Page 35</li> <li>Audio Setup <ul style="list-style-type: none"> <li>Digital Output..... Page 36</li> <li>Multilingual..... Page 36</li> </ul> </li> <li>Time Setup..... Page 36</li> <li>I-Plate Setup..... Page 37</li> </ul>
Option	Information.....	Page 37

### NOTE

- The illustrations and on-screen displays in this manual are for explanation purposes and may vary slightly from the actual operations.

## Selecting DTV mode



**▲/▼/◀/▶:** Press to select a desired item on the screen or adjust a selected item.

**ENTER:** Press to go to the next step or complete the setting.

**RETURN:** Press to return to the previous step.

## Basic adjustment settings (Digital)

### EPG

#### What is an EPG?

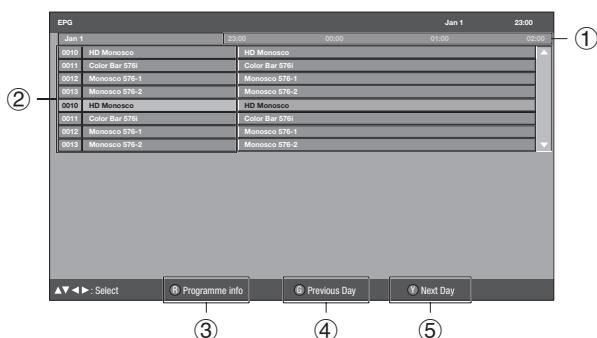
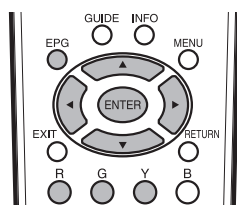
An "EPG (Electronic Programme Guide)" is a programme schedule, which is displayed on the TV screen. The EPG is broadcasted together with DTV. The TV screen shows the EPG when the viewer presses **EPG** on the remote control, provided that the TV is receiving the digital broadcasting signal. The EPG enables you to search for a programme, do timer recording or view the programme schedule in detail.

### Selecting a programme using EPG

#### Basic Operation

#### Display the EPG screen

Press **EPG**.



#### Display the EPG screen

- ① Press **◀/▶** to select the time span you want to search.
  - Continue to press **▶** to display programmes in the next time span.
- ② Press **▲/▼** to select the desired programme.
  - If **▲** or **▼** are displayed on the left of the services, continue to press **▲/▼** to display next or previous screen.

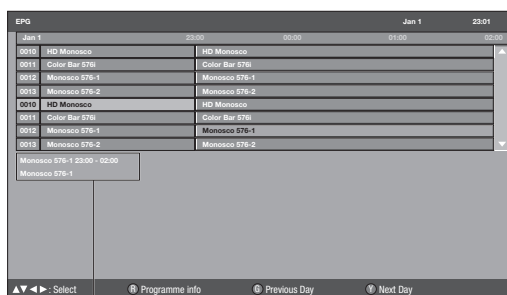
#### Close the EPG screen

Press **EPG** again.

### Selecting a programme

#### ③ Check programme information

- 1 Press **▲/▼/◀/▶** to select the programme you want to check.
- 2 Press **R**.

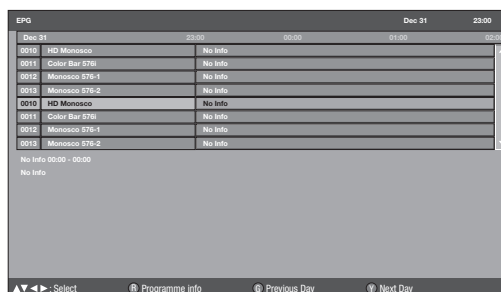


Programme Information

- 3 Press **OK** to tune to the selected programme.

#### ④ Check previous day programme information

- 1 Press **G**.
- 2 Press **▲/▼** to select the desired genre, and then press **ENTER**.
- 3 Press **▲/▼** to select a programme you want to watch, and then press **ENTER**.

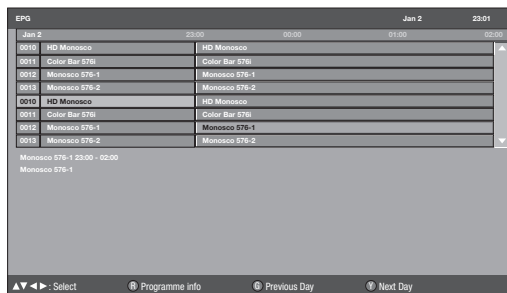


## Basic adjustment settings (Digital)

### ⑤ Search for next day programme

1 Press **Y**.

2 Press ◀/▶ to select the desired time span, and then press **ENTER**.



3 Press ▲/▼ to select the desired programme, and then press **ENTER**.

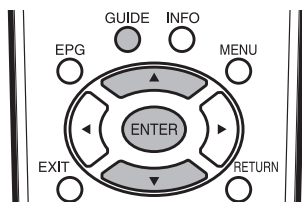
#### NOTE

- When you select a programme outside of the current time span, the timer setting screen displays. (Page 30)

## Basic adjustment settings (Digital)

### Programme Guide

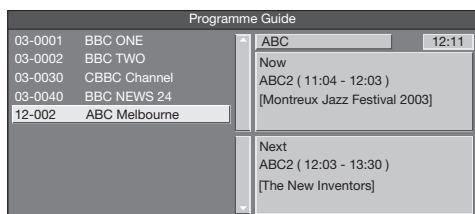
You can check the schedule of DTV events and view detailed information about current or future events.



- 1 Press **GUIDE** to display the programme guide list.

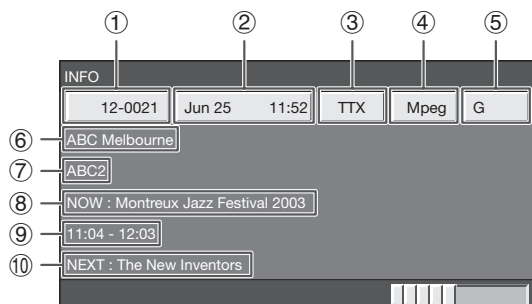
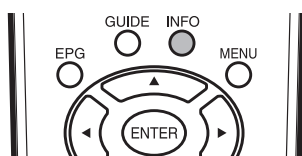
- 2 Press **▲/▼** to display your desired programme, and then press **ENTER**.

- When you press **ENTER**, the TV jumps to the channel.



### Info

While watching DTV you can check the extended programme information on the screen using **INFO** on the remote control.



#### General INFO screen

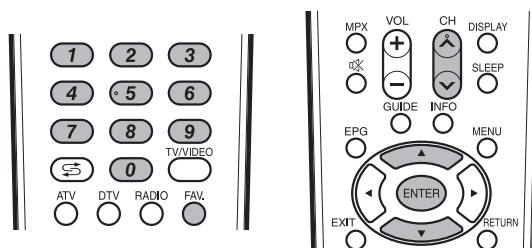
- |                                  |                                  |
|----------------------------------|----------------------------------|
| ① Current channel number         | ⑥ Station name                   |
| ② Date and current local time    | ⑦ Service name                   |
| ③ Teletext                       | ⑧ Current programme name         |
| ④ Audio system (Dolby D or MPEG) | ⑨ Time for the current programme |
| ⑤ Parental rate                  | ⑩ Next programme name            |

### NOTE

- While the I-Plate is still on the screen, you can press **INFO** on the remote control again to call up the extended programme information of the current TV channel.
- Press **INFO** again and you call up the extended information on the next programme.
- Pressing **INFO** again will not display the information for the next programme if "No Available Event Text" under "Next" is displayed.

### Favourite Programme List

When you are watching terrestrial TV channels, you can call up the Favourite Programme List using **FAV.** on the remote control.



- 1 Press **FAV.** to display the Favourite Programme list.

- 2 Press **▲/▼** to select your desired channel, and then press **ENTER**.



### NOTE

- Refer to "Favourite & Lock" to register channels to your Favourite Programme List. (See page 33.)

### Changing channels within the Favourite Programme List

- 1 Repeat steps 1 and 2 in **Favourite Programme List**.
- 2 Select the registered channels in the Favourite Programme List using **CH ▲/▼** on the remote control unit or the TV.
  - The information plate pops up with the "♥" symbol on the left of the channel.

### Selecting channels other than Favourite Programmes

- 1 Directly input the number of the channel you want to watch using **0-9** on the remote control unit or select the channel from "Programme List" in the "Programme" menu.

## Basic adjustment settings (Digital)

### Programme List

You can select the desired programme from the programme list.

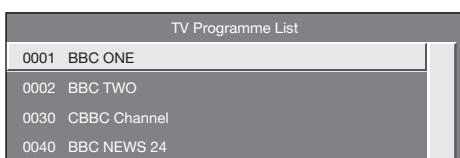
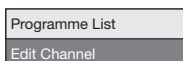
1 Press **MENU** and the MENU screen displays.

2 Press **◀/▶** to select "Option".

3 Press **▲/▼** to select "DTV menu", and then press **ENTER**.

4 Press **▲/▼** to select "Programme", and then press **ENTER**.

5 Press **▲/▼** to select "Programme List", and then press **ENTER**.



6 Press **▲/▼** to select your desired programme number and name, and then press **ENTER**.

### Favourite & Lock

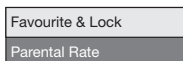
Assign channels to Favourite or to Lock groups.

1 Repeat steps 1 to 4 in **Programme List**.

2 Press **▲/▼** to select "Edit Channel", and then press **ENTER**.  
If you have already set the password, enter it here. If not, enter the factory preset password "1234".

- See page 38 for setting a password.

3 Press **▲/▼** to select "Favourite & Lock", and then press **ENTER**.



4 Press **▲/▼** to select your desired channel.

5 Press **◀/▶** to select "FAV" or "Lock", and then press **ENTER**.

Selected item	Description
<b>FAV</b>	You can easily select your favourite channel from the Favourite Programme List.
<b>Lock</b>	When the channel is locked, you must enter your password whenever you tune to the channel.

#### NOTE

- Press **ENTER** again to cancel "FAV" (♥) or "Lock" (🔒) settings.

### Parental Rate

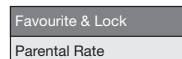
This function allows TV channels to be restricted. It prevents children from watching violent or sexual scenes that may be considered inappropriate.

1 Repeat steps 1 to 4 in **Programme List**.

2 Press **▲/▼** to select "Edit Channel", and then press **ENTER**.  
If you have already set the password, enter it here. If not, enter the factory preset password "1234".

- See page 38 for setting a password.

3 Press **▲/▼** to select "Parental Rate", and then press **ENTER**.



4 Press **▲/▼** to select your desired rating, and then press **ENTER**.

Selected item	Description
<b>General and above (G)</b>	Content is not offensive to most viewers.
<b>Parental Guidance and above (PG)</b>	Content is such that parents may not want their children to view the programme.
<b>Mature and above (M)</b>	Mature Audience only. This programme is specifically designed to be viewed by adults and therefore may be unsuitable for children under 15.
<b>Mature Adult and above (MA)</b>	Mature Adult only. Mature Audience only. This programme is specifically designed to be viewed by adults and therefore may be unsuitable for children under 15.
<b>Adult Violence (AV)</b>	Not for children under age 15. Strong elements of sex and/or violence.
<b>Restricted and above (R)</b>	Not for children under age 18. Strong elements of sex and/or violence.
<b>No Block (-)</b>	Cancel the blocking.

## Basic adjustment settings (Digital)

### Installation

The first time the receiver is powered on, "Programme list is empty" will display on the screen. Under the main menu, select "Installation" and enter into the sub-menu.

### Auto Search

You can automatically search for and download TV channels.

- 1 Press **MENU** and the MENU screen displays.
- 2 Press **◀/▶** to select "Option".
- 3 Press **▲/▼** to select "DTV menu", and then press **ENTER**.
- 4 Press **▲/▼** to select "Setup", and then press **ENTER**.
- 5 Press **▲/▼** to select "Installation", and then press **ENTER**.  
If you have already set the password, enter it here. If not, enter the factory preset password "1234".
  - See page 38 for setting a password.
- 6 Press **▲/▼** to select "Auto Search", and then press **ENTER**.
- 7 Press **◀/▶** to select "Yes", and then press **ENTER**.
- 8 Auto search starts.
  - Programme auto search.You do not need to do anything during the auto search.

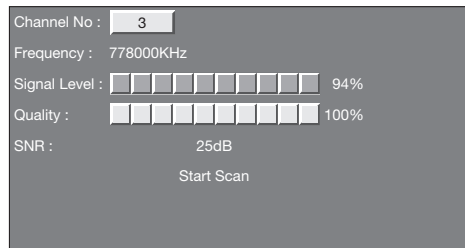
#### NOTE

- Once the DTV signal is scanned, the channel number and programme name will be shown on the programme list.
- The indicator operates concurrently with scanning channels and shows the progress made.

### Manual Adjust

You can set some channel items manually.

- 1 Repeat steps 1 to 5 in **Auto Search**.
- 2 Press **▲/▼** to select "Manual Adjust", and then press **ENTER**.
- 3 Press **0-9** or **◀/▶** to select a channel number.
  - Channel settings apply to channels 2-69.
- 4 Press **▲/▼** to select the desired menu item, and make sure the correct frequency is selected.


- 5 Press **▲/▼** to select "Start Scan", and then press **ENTER**.

#### NOTE

- If a signal lock in, "Start Scan" will change to "Get Channel Success". Then you can press **EXIT** to leave the installation page and watch a programme or continue scanning for other channels. Anytime you watch a DTV channel and want to know the "Signal Level", "Quality" or "SNR", enter into this page.
- If a signal does not lock in, "Start Scan" will show "Timeout Error". You can scan the signal again, or refer to the "Signal Level" and "Quality" for aligning the direction of the antenna to get the signal.
- **Signal Level:** The signal power or intensity from the broadcasted frequency.  
**Quality:** The clean level of the signal from the broadcasted frequency.  
**SNR:** The rate of signal and noise to radiated frequency.

## Basic adjustment settings (Digital)

### Quick Search

If you live in the cities or regions listed in the “Quick Search” menu, you can scan all DTV channel signals.

- 1 Press **MENU** and the MENU screen displays.
- 2 Press **◀/▶** to select “Option”.
- 3 Press **▲/▼** to select “DTV menu”, and then press **ENTER**.
- 4 Press **▲/▼** to select “Setup”, and then press **ENTER**.
- 5 Press **▲/▼** to select “Installation”, and then press **ENTER**.  
If you have already set the password, enter it here. If not, enter the factory preset password “1234”.
  - See page 38 for setting a password.
- 6 Press **▲/▼** to select “Quick Search”, and then press **ENTER**.
 

Auto Search  
 Manual Adjust  
**Quick Search**  
 Reset Data

Quick Search  
 Adelaide  
 Brisbane  
 Melbourne  
 Perth  
 Sydney
- 7 Press **▲/▼** to select your city or region listed on the screen, and then press **ENTER**.

#### NOTE

- If channel frequency is changed by the local TV station or a new channel comes up, you have to scan these channels using “Manual Adjust”.

### Reset Data

Use this function to clear the channel data.

- 1 Repeat steps 1 to 5 in **Quick Search**.
- 2 Press **▲/▼** to select “Reset Data”, and then press **ENTER**.
- 3 Press **◀/▶** to select “Yes”, and then press **ENTER**.

### Video Setup

This function allows you to select an output format.

- 1 Press **MENU** and the MENU screen displays.
- 2 Press **◀/▶** to select “Option”.
- 3 Press **▲/▼** to select “DTV menu”, and then press **ENTER**.
- 4 Press **▲/▼** to select “Setup”, and then press **ENTER**.
- 5 Press **▲/▼** to select “System Setup”, and then press **ENTER**.
- 6 Press **▲/▼** to select “Video Setup”, and then press **ENTER**.
 

Video Setup  
 Audio Setup  
 Time Setup  
 I-Plate Setup

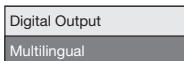
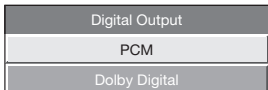
Output Format  
**Fix**  
 Auto
- 7 Press **▲/▼** to select your desired item, and then press **ENTER**.

Selected item	Description
<b>Fix</b>	Displays every DTV broadcast converted to 1080i.
<b>Auto</b>	Displays the DTV broadcast in the format it is received.

## Basic adjustment settings (Digital)

### Digital Output

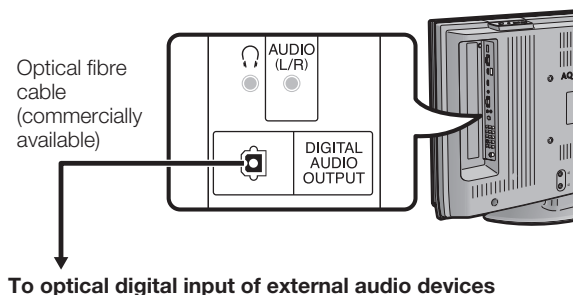
This function allows you to select your favourite audio output system.

- 1 Press **MENU** and the MENU screen displays.
- 2 Press **◀/▶** to select "Option".
- 3 Press **▲/▼** to select "DTV menu", and then press **ENTER**.
- 4 Press **▲/▼** to select "Setup", and then press **ENTER**.
- 5 Press **▲/▼** to select "System Setup", and then press **ENTER**.
- 6 Press **▲/▼** to select "Audio Setup", and then press **ENTER**.
- 7 Press **▲/▼** to select "Digital Output", and then press **ENTER**.  


- 8 Press **▲/▼** to select your desired output system, and then press **ENTER**.

Selected item	Description
<b>PCM</b>	The optical output format is normally in PCM.
<b>Dolby Digital</b>	Dolby Digital audio will be output when there is a Dolby Digital audio signal. The output will be in PCM when there is no Dolby Digital audio signal.

### Using Digital Audio Output

It is possible to output audio through the DIGITAL AUDIO OUTPUT terminal. PCM audio outputs from the terminal.

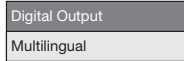
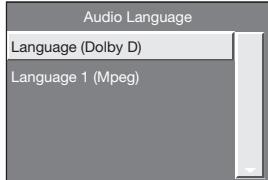


### NOTE

- The DIGITAL AUDIO OUTPUT terminal outputs only DTV audio.
- When you are watching a programme on Analogue TV or images from external equipment, audio from the DTV channels still outputs from the DIGITAL AUDIO OUTPUT terminal.
- The DIGITAL AUDIO OUTPUT terminal usually outputs the same audio from the speakers. (The audio of the content you are viewing is output from the terminal.)
- The DIGITAL AUDIO OUTPUT terminal does not output some signals, depending on devices and software.

### Multilingual

You can select a different audio language when the broadcast has different audio language.

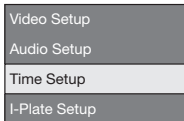
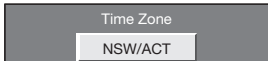
- 1 Repeat steps 1 to 5 in **Digital Output**.
- 2 Press **▲/▼** to select "Multilingual", and then press **ENTER**.  


- 3 Press **▲/▼** to select your desired audio language, and then press **ENTER**.

Selected item	Description
<b>Language (Dolby D)</b>	You can enjoy Dolby Digital audio. Outputs Dolby Digital audio from the digital output.
<b>Language (Mpeg)</b>	You can enjoy Mpeg audio. Outputs PCM audio from the digital output regardless of the "Digital Output" setting.

## Basic adjustment settings (Digital)

### Time Setup

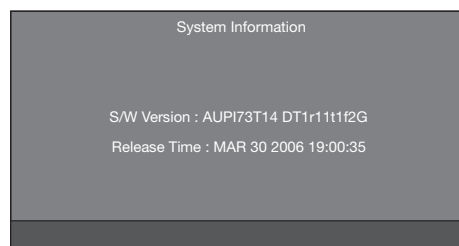
This function allows you to select your local time zone.

- 1 Press **MENU** and the MENU screen displays.
- 2 Press **◀/▶** to select "Option".
- 3 Press **▲/▼** to select "DTV menu", and then press **ENTER**.
- 4 Press **▲/▼** to select "Setup", and then press **ENTER**.
- 5 Press **▲/▼** to select "System Setup", and then press **ENTER**.
- 6 Press **▲/▼** to select "Time Setup", and then press **ENTER**.  


- 7 Press **◀/▶** to select your local time zone, and then press **ENTER**.

### Information

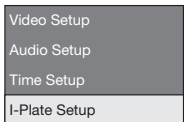

You can check the current version of the hardware and software on the screen.

- 1 Press **MENU** and the MENU screen displays.
- 2 Press **◀/▶** to select "Option".
- 3 Press **▲/▼** to select "DTV menu", and then press **ENTER**.
- 4 Press **▲/▼** to select "Option", and then press **ENTER**.
- 5 Press **▲/▼** to select "Information", and then press **ENTER**.



### I-Plate Setup (Information Plate Setup)

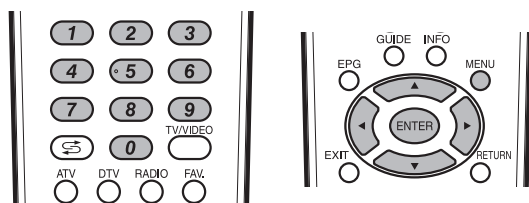
This function allows you to configure the display time and time format for the information plate.

- 1 Repeat steps 1 to 5 in **Time Setup**.
- 2 Press **▲/▼** to select "I-Plate Setup", and then press **ENTER**.  

- 3 Press **▲/▼** to select your desired item.
- 4 Press **◀/▶** to select your desired value, and then press **ENTER**.  


# Useful adjustment settings

## Password setting for child lock (for TV/DTV input mode)

Allows you to use a password to protect certain settings from being accidentally changed.



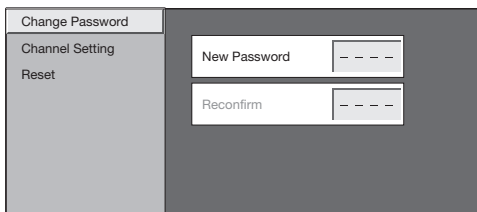
### Setting a password

Register a 4-digit password number to use the Child Lock function.

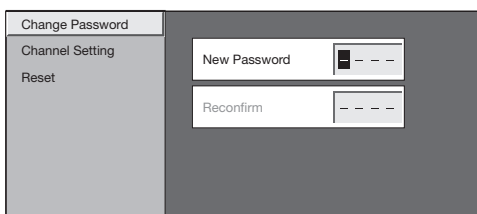
- 1 Press **MENU** and the MENU screen displays.
- 2 Press **◀▶** to select "Setup".
- 3 Press **▲/▼** to select "Child Lock", and then press **ENTER**.
- 4 If you already set the password, enter it here.

— — — —

- 5 Press **▲/▼** to select "Change Password", and then press **ENTER**.



- 6 Enter the 4-digit number as a password using **0 – 9**.



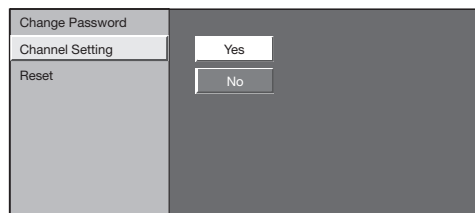
- 7 Enter the same 4-digit number as in step 6 to confirm.

### NOTE

- To view a locked channel you must enter a password. When you select a locked channel, a password prompt message pops up.

## Setting a channel

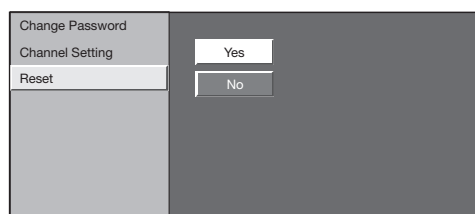
- 1 Repeat steps 1 to 4 in **Setting a password**.
- 2 Press **▲/▼** to select "Channel Setting", and then press **ENTER**.
- 3 Press **▲/▼** to select "Yes", and then press **ENTER**.
- 4 Press **▲/▼/◀▶** to select the channel that you wish to apply the Child Lock, and then press **ENTER**.



## Resetting the password

Allows you to reset your password.

- 1 Repeat steps 1 to 4 in **Setting a password**.
- 2 Press **▲/▼** to select "Reset", and then press **ENTER**.
- 3 Press **▲/▼** to select "Yes", and then press **ENTER**.



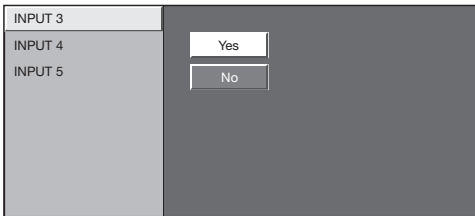
### NOTE

- As a precautionary measure, make a note of your password on the back of this operation manual, cut it out and keep it in a safe place that children cannot reach.
- This function is only available for TV/DTV input mode.
- To relock a channel which has been temporarily unlocked by inputting the correct password, turn power off and then on again.

## Useful adjustment settings

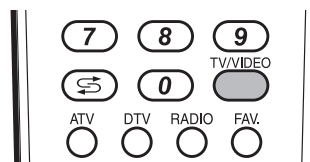
### Input Skip

This setting allows you to skip the HDMI or PC input on the Input Selection operation.

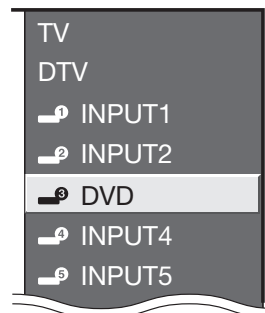
- 1 Press **MENU** and the MENU screen displays.
- 2 Press **◀▶** to select "Setup".
- 3 Press **▲▼** to select "Input Skip", and then press **ENTER**.
- 4 Press **▲▼** to select the Input (INPUT 3, INPUT 4 or INPUT 5) you wish to skip, and then press **ENTER**.  

- 5 Press **▲▼** to select "Yes", and then press **ENTER**.
- 6 Press **MENU** to exit.

### Input Label

You can assign each input source a label you like.



- 1 Press **TV/VIDEO** to select the desired input source.
- 2 Press **MENU** and the MENU screen displays.
- 3 Press **◀▶** to select "Setup".
- 4 Press **▲▼** to select "Input Label", and then press **ENTER**.
- 5 Press **▲▼** to select characters and **◀▶** to move to the desired digit to label the input source.
  - When you want to change the input label that you have already assigned to the default name, press **◀▶** to move to "CLEAR" on the "Input Label" screen, and then press **ENTER**.
- 6 Repeat the above until the name is fully spelt out, and then press **MENU**.
  - The name can be 6 characters or less.
  - When you want to set an input source name of less than 6 characters, press **MENU** to exit from the labelling menu.



(Example)

#### NOTE

- You cannot change labels if the input source is TV or DTV.

## Useful adjustment settings

### Image position

For adjusting a picture's horizontal and vertical position.

**1** Press **MENU** and the MENU screen displays.

**2** Press **◀/▶** to select "Setup".

**3** Press **▲/▼** to select "Position", and then press **ENTER**.

**4** Press **▲/▼** to select "H-Position" or "V-Position".



**5** Press **◀/▶** to adjust the item to your desired position.

Selected item	Description
<b>H-Position</b>	Centres the image by moving it to the left or right.
<b>V-Position</b>	Centres the image by moving it up or down.

#### NOTE

- For resetting all adjustment items to the factory preset values, press **▲/▼** to select "Reset", and then press **ENTER**.
- Adjustments are stored separately according to input source.**
- Images may not be displayed properly depending on the settings and/or input signals.

### Wide Screen Signalling (WSS)

WSS allows a television to switch automatically among the different screen formats.

**1** Press **MENU** and the MENU screen displays.

**2** Press **◀/▶** to select "Setup".

**3** Press **▲/▼** to select "WSS", and then press **ENTER**.

**4** Press **▲/▼** to select "On" or "Off", and then press **ENTER**.

#### NOTE

- Try to set WIDE mode if an image does not switch to the correct screen format. When the broadcast signal contains no WSS information, the function will not work even if enabled.

## Useful adjustment settings

### Picture aspect ratio

The WSS signal has 4:3 auto-switching that allows you to select between Panorama and Normal.

- 1 Press **MENU** and the MENU screen displays.
- 2 Press ◀/▶ to select "Setup".
- 3 Press ▲/▼ to select "4:3 Mode", and then press **ENTER**.
- 4 Press ▲/▼ to select "Panorama" or "Normal", and then press **ENTER**.

#### WSS signal 4:3 screen

4:3 mode "Panorama"



4:3 mode "Normal"



Selected item	Description
<b>Panorama</b>	Wide image without side bars
<b>Normal</b>	Normal range keeping 4:3 or 16:9 aspect ratio

### Standby Mode

Standby Mode may be set to either start the TV quickly from standby or conserve energy while on standby.

- 1 Press **MENU** and the MENU screen displays.
- 2 Press ◀/▶ to select "Setup".
- 3 Press ▲/▼ to select "Standby Mode", and then press **ENTER**.
- 4 Press ▲/▼ to select "Mode 1" or "Mode 2", and then press **ENTER**.

Selected item	Description
<b>Mode 1</b>	Starting the TV is quick from standby.
<b>Mode 2</b>	Power consumption is small during standby.

- 5 Press **MENU** to exit.

## Useful adjustment settings

---

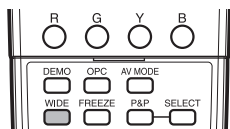
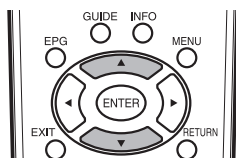
### Reset

If complex adjustments are made and the settings cannot be restored to normal, you can reset the settings to the factory preset values.

- 1 Press **MENU** and the MENU screen displays.
- 2 Press ◀▶ to select "Setup".
- 3 Press ▲▼ to select "Reset", and then press **ENTER**.
- 4 Press ▲▼ to select "Yes", and then press **ENTER**.
  - After the reset has completed, the power shuts off and then comes back on. The screen will have returned to its original settings.

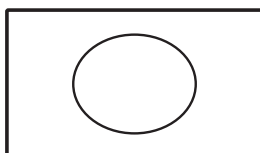
## Useful adjustment settings

### WIDE mode (for TV/AV input mode)

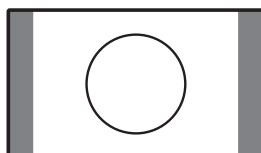


#### WIDE MODE

Normal  
Zoom 14:9  
Panorama  
Full  
Cinema 16:9  
Cinema 14:9



4:3 Mode set to "Panorama"



4:3 Mode set to "Normal"

### Manual Selection

1

Press **WIDE**.

- The WIDE MODE menu displays.
- The menu lists the wide mode options selectable for the type of video signal currently received.

2

Press **WIDE** or **▲/▼** while the WIDE MODE menu displays on the screen.

- As you toggle down the options, each is immediately reflected on the TV.

### Auto Selection

If you set "WSS" and "4:3 Mode" in the Setup menu on pages 40 and 41, the optimum WIDE mode is automatically chosen for every broadcast containing the WSS information.

#### "WSS" menu

To enable Auto Selection, set "WSS" in the Setup menu to "On". (See page 40.)

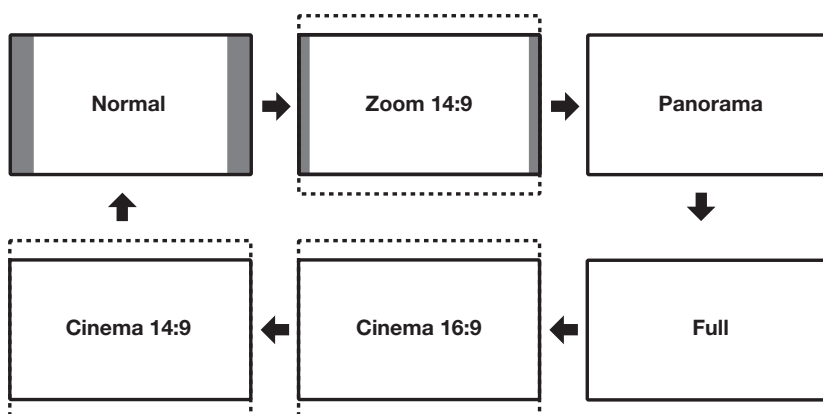
#### "4:3 Mode" menu

To set the type of the wide screen, select "Panorama" or "Normal" in the 4:3 Mode menu. (See page 41.)

#### NOTE

- If the broadcast signal contains no WSS information, Auto Selection will not function even when the WSS option is enabled.

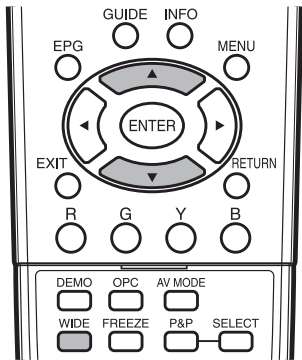
Selected item	Description
<b>Normal</b>	For 4:3 "standard" pictures. A side bar appears on each side.
<b>Zoom 14:9</b>	For 14:9 letterbox pictures. A thin side bar appears on each side, and you may also see bars on the top and bottom with some programmes.
<b>Panorama</b>	In this mode the picture is progressively stretched toward each side of the screen.
<b>Full</b>	For 16:9 squeeze pictures.
<b>Cinema 16:9</b>	For 16:9 letterbox pictures. Bars may appear on the top and bottom with some programmes.
<b>Cinema 14:9</b>	For 14:9 letterbox pictures. Bars may appear on the top and bottom with some programmes.



#### NOTE

- Some screen sizes may not be displayable depending on the input signal.

Useful adjustment settings



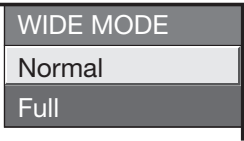
WIDE mode (for PC input mode)

You can select the screen size.

NOTE

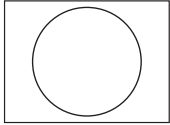
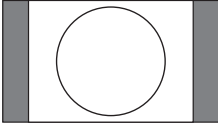
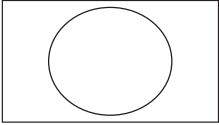
- Connect the PC before making adjustments. (See page 58.)
- Selectable screen size may vary with input signal type.

- 1 Press **WIDE**.
- The WIDE MODE menu displays.



- 2 Press **WIDE** or **▲/▼** to select a desired item on the menu.

EXAMPLE  Screen size images.

Input Signal	Normal	Full
 1024 × 768 1360 × 768	 Keeps the original aspect ratio in a full screen display.	 An image fully fills the screen.

## Useful adjustment settings

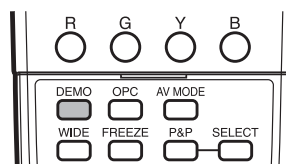
### Language setting for on-screen display

You can also select a language from setup menu. Select from among 4 languages: English, Simplified Chinese, Traditional Chinese and Arabic.

- 1 Press **MENU** and the MENU screen displays.
- 2 Press ◀▶ to select "Setup".
- 3 Press ▲▼ to select "Language", and then press **ENTER**.
- 4 Press ▲▼ to select the desired language listed on the screen, and then press **ENTER**.

### Demo

Fine Motion Advanced technology provides superior solutions for digital display picture quality removing motion blur.



Press **DEMO** on the remote control unit to show Fine Motion Advanced demonstration in a split-screen format.

#### NOTE

- This effect is greater on fast moving images.
- Demo function will release and back to normal mode when press any button.

## Useful adjustment settings

### DNR (Digital Noise Reduction)

Produces a clearer video image.

**1** Press **MENU** and the MENU screen displays.

**2** Press **◀▶** to select "Option".

**3** Press **▲▼** to select "DNR", and then press **ENTER**.

**4** Press **▲▼** to select the desired level, and then press **ENTER**.

Off  
High  
Low

### Input Select

#### Selecting input source

Can use for selecting the input source.

**Using TV/VIDEO on the remote control unit or on the TV**

**TV/VIDEO** allows you to choose from the available input sources.



**1** Press **TV/VIDEO** on the remote control unit or **TV/VIDEO** on the TV.

**2** Press **TV/VIDEO** on the remote control unit or **TV/VIDEO** on the TV to select the input source.

- An image from the selected source automatically displays.
- You can also select the input source by pressing **▲▼**.

#### Selecting input signal type

For setting the signal type of external equipment.

**1** Press **MENU** and the MENU screen displays.

**2** Press **◀▶** to select "Option".

**3** Press **▲▼** to select "Input Select", and then press **ENTER**.

**4** Press **▲▼** to select an input source among "Input 1" and "Input 2", and then press **ENTER**.

**5** Press **▲▼** to select the desired level, and then press **ENTER**.

Input source	Selectable item
Input 1	Input (Auto), Input (COMPONENT), Input (S-VIDEO), Input (VIDEO), Output
Input 2	Auto, COMPONENT, VIDEO

#### NOTE

- **If no (colour) image displays, try to change the other signal type.**
- Check the operation manual of the external equipment for the signal type.
- When the signal type is set to "Auto", the input terminal where cable is connected is automatically selected.
- When the signal type is set to "Auto" and multiple video signal cables are connected, the signal type is selected in the following prioritised order:  
Input 1: COMPONENT → S-VIDEO → VIDEO  
Input 2: COMPONENT → VIDEO
- When the signal type for "INPUT5" is set to "DIGITAL" or "ANALOGUE", a "PC" or "AV" signal is automatically detected.
- When Input 1 is set to "Output", Input 1 will become video out function.

## Useful adjustment settings

### Output Volume Select

Allows you to select what controls the audio output.

- 1 Press **MENU** and the MENU screen displays.
- 2 Press ◀/▶ to select "Option".
- 3 Press ▲/▼ to select "Output Volume Select", and then press **ENTER**.
- 4 Press ▲/▼ to select "Fixed" or "Variable", and then press **ENTER**.



Selected item	Description
<b>Fixed</b>	<ul style="list-style-type: none"><li>• Sound via speakers is adjusted with <b>VOL +/-</b> on the remote control unit or the TV.</li><li>• Sound via the MONITOR OUTPUT terminal is not adjustable and constantly outputs.</li></ul>
<b>Variable</b>	<ul style="list-style-type: none"><li>• Sound via the MONITOR OUTPUT terminal is adjusted with <b>VOL +/-</b> on the remote control unit or the TV.</li><li>• Sound via speakers is muted.</li></ul>

#### NOTE

- The "Audio" menu cannot be operated when headphones are plugged in or when "Variable" is selected.

### Audio Only

When listening to music from a music programme, you can set the display off and enjoy audio only.

- 1 Press **MENU** and the MENU screen displays.
- 2 Press ◀/▶ to select "Option".
- 3 Press ▲/▼ to select "Audio Only", and then press **ENTER**.
- 4 Press ▲/▼ to select "On", and then press **ENTER**.

Selected item	Description
<b>On</b>	Audio is output without screen image.
<b>Off</b>	Both screen images and audio are output.

#### NOTE

- When you make operations that change the picture on the TV such as by changing the input source, the Audio Only function is set to "Off".

Useful adjustment settings

Game Play Time

This function displays the elapsed game time so you do not lose track of the time.  
To display the elapsed time, select "GAME" for the input mode of the terminal connected to the game console before starting the game.

- 1 Press **MENU** and the MENU screen displays.
- 2 Press **◀/▶** to select "Option".
- 3 Press **▲/▼** to select "Game Play Time", and then press **ENTER**.
- 4 Press **▲/▼** to select "On", and then press **ENTER**.

Selected item	Description
On	The elapsed time is displayed every 30 minutes when you switch to GAME mode in external input mode.
Off	No adjustment.

Colour system setting

You can change the colour system to one that is compatible with the image on the screen.

- 1 Press **MENU** and the MENU screen displays.
- 2 Press **◀/▶** to select "Option".
- 3 Press **▲/▼** to select "Colour System", and then press **ENTER**.
- 4 Press **▲/▼** to select a compatible video signal system of your equipment, and then press **ENTER**.



- NOTE**
- Factory preset value is "AUTO".
  - If "AUTO" is selected, colour system for each channel is automatically set. If an image does not display clearly, select another colour system (e.g. PAL, NTSC 4.43).

## Useful adjustment settings

### HDMI Setup

HDMI (High-Definition Multimedia Interface) terminal selection.

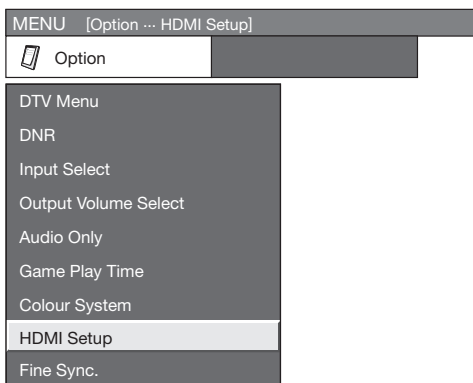
**1** To watch an HDMI equipment image, select "INPUT3" or "INPUT4" using **TV/VIDEO** on the remote control unit or on the TV.

**2** Press **MENU** and the MENU screen displays.

**3** Press **◀/▶** to select "Option".

**4** Press **▲/▼** to select "HDMI Setup", and then press **ENTER**.

- The HDMI Setup can be selected only when "INPUT3" or "INPUT4" is selected.



**5** Press **▲/▼** to select the desired item or setting, and then press **ENTER**.

**6** Press **▲/▼** to select the desired setting, and then press **ENTER**.

HDMI Setup items	Selectable items	Description
<b>Auto View</b>	Enable/Disable	Set whether or not to use WIDE MODE based on signal recognition, including an HDMI signal.
<b>Audio Select</b>	Digital/Analogue	Select "Digital" for audio signal via the HDMI terminal. Select "Analogue" for audio signal via the AUDIO jack.

#### NOTE

- Refer to your external equipment operation manual for these settings.
- "Audio Select" is only available for INPUT3.

### PC Setup

#### Input Signal (PC input mode only)

- Some input signals may have to be registered manually to display properly.
- The input signals (resolutions) in the list below are not distinguishable when received. In such case, you have to set the correct signal manually. After setting once, it will display when the same signal (resolution) is input again.

1024 × 768      1360 × 768

#### NOTE

- You can only select the "Input Signal" on the Setup menu when receiving one of the 2 input signals listed above.

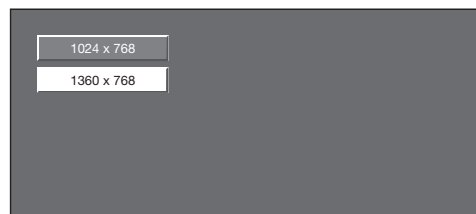
**1** Press **MENU** and the MENU screen displays.

**2** Press **◀/▶** to select "Option".

**3** Press **▲/▼** to select "Fine Sync.", and then press **ENTER**.

**4** Press **▲/▼** to select "Input Signal", and then press **ENTER**.

**5** Press **▲/▼** to select the desired input signal on the display, and then press **ENTER**.



(Example)

## Useful adjustment settings

### Adjusting the PC image automatically

This function enables the screen to be automatically adjusted to its best possible condition when the analogue terminals of the TV and PC are connected with a commercially available RGB cable, etc.

**1** Press **MENU** and the MENU screen displays.

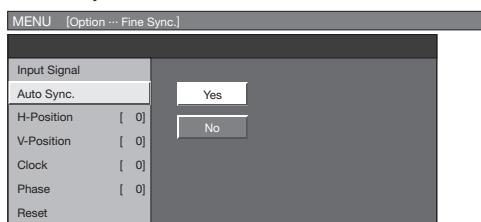
**2** Press **◀/▶** to select "Option".

**3** Press **▲/▼** to select "Fine Sync.", and then press **ENTER**.

**4** Press **▲/▼** to select "Auto Sync.", and then press **ENTER**.

**5** Press **▲/▼** to select "Yes", and then press **ENTER**.

- Auto Sync. starts.



#### NOTE

- Auto Sync. is likely to succeed when an input PC image has wide vertical stripes (e.g. pattern with high contrast stripes, or cross-hatched). It may fail when an input PC image is solid (low contrast).
- Be sure to connect the PC to the TV and switch it on before starting Auto Sync.

### Adjusting the PC image manually

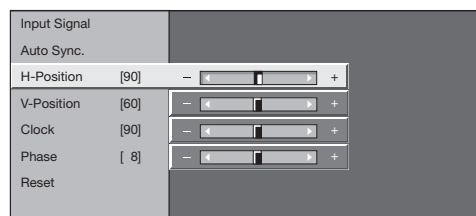
Ordinarily you can easily adjust the picture as necessary to change image position using Auto Sync. In some cases, however, manual adjustment is needed to optimise the image.

**1** Press **MENU** and the MENU screen displays.

**2** Press **◀/▶** to select "Option".

**3** Press **▲/▼** to select "Fine Sync.", and then press **ENTER**.

**4** Press **▲/▼** to select a specific adjustment item among "H-Position", "V-Position", "Clock" and "Phase".



Selected item	Description
<b>H-Position</b>	Centres the image by moving it to the left or right.
<b>V-Position</b>	Centres the image by moving it to the up or down.
<b>Clock</b>	Adjusts when the image flickers with vertical stripes.
<b>Phase</b>	Adjusts when characters have low contrast or when the image flickers.

**5** Press **◀/▶** to adjust the item to your desired position.

**6** Press **MENU** to exit.

#### NOTE

- For resetting all adjustment items to factory preset values, press **▲/▼** to select "Reset", and then press **ENTER**.
- Images may not be displayed properly depending on the settings and/or input signals.

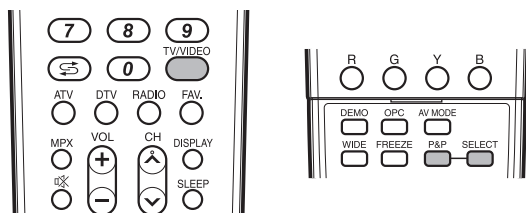
# Useful features

## Dual screen functions

Allows you to display two pictures on the screen at one time.

### Dual screen

You can display two pictures except when inputting from the RS-232C or PC INPUT terminal.



1

Press **P&P**.

- Dual screen displays and a selected input source image displays.



2

Press **SELECT** to set either screen to be active.

- “♪” displays on the active screen, which has sound output.

3

Press **TV/VIDEO** to select another input source on the active screen.

- A selected image displays.

4

Press **P&P** to exit dual screen.

### NOTE

- This function does not work under the following input conditions:
  - ① Two pictures from the same source (e.g. INPUT 1 and INPUT 1),
  - ② Two pictures with different vertical frequency (e.g. PAL and PAL-60, PAL (50 Hz) and NTSC (60 Hz))
- When you press **P&P**, the current input is moved to the left side screen display, and the other input appears on the right side screen display.
 

When you cannot acquire dual screen capability, perform the operation below.

  - Select another input whose vertical frequency is same as one of the current inputs (e.g. PAL and PAL).
- When this function is not available, “No dual screen display available.” will display.


## Useful features

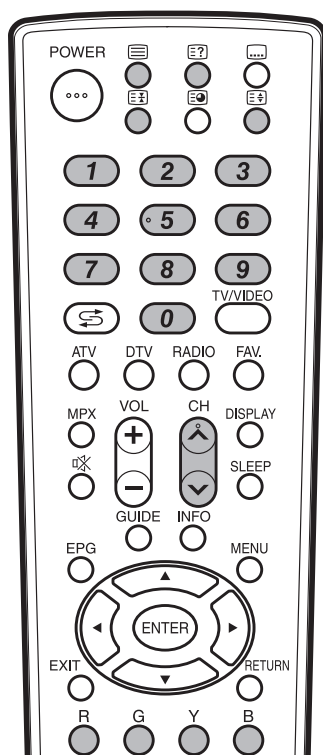
### Teletext function

#### What is Teletext?




Teletext broadcasts pages of information and entertainment to specially equipped television sets. Your TV receives Teletext signals broadcast by a TV network, and decodes them into graphical format for viewing. News, weather reports, sports information, stock exchange prices and programme previews are among the many services available.

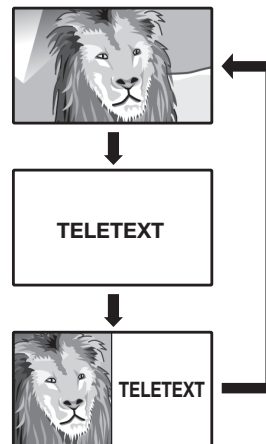
#### Teletext mode

Teletext is turned on/off with  on the remote control unit. You can operate your TV in Teletext mode directly by inputting commands with the remote control unit.



#### Turning on and off Teletext



- 1** Select a TV channel or external input source providing the Teletext programme.
- 2** Press  to display the Teletext.
- 3** Press  again to display the Teletext on the right screen and normal image on the left screen.
  - Each time you press , the screen switches as shown upper right.
  - If you select a programme with no Teletext signal, "No Teletext available." is displayed.



#### NOTE

- This dual screen cannot be displayed in DTV mode.

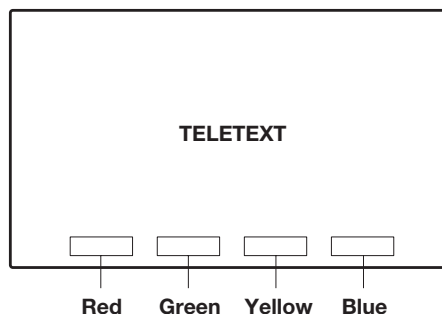
#### When viewing the Teletext information

- Press **CH**  to increase the page number.
- Press **CH**  to decrease the page number.

#### Button functions

##### Colour (Red/Green/Yellow/Blue):

You can select a group or block of pages displayed in the coloured brackets at the bottom of the screen by pressing the corresponding **Colour (Red/Green/Yellow/Blue)** on the remote control unit.

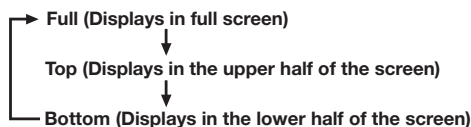


#### 0 - 9:

Directly select any page from 100 to 899 by using **0 - 9**.

#### (Top/Bottom/Full):


Each time you press , the TELETEXT image switches as shown below.




#### NOTE

- This function is not available in DTV mode.


#### (Reveal hidden for TELETEXT):

To reveal hidden information such as an answer to a quiz, press .

- Press  again to hide the information.

#### (Hold):

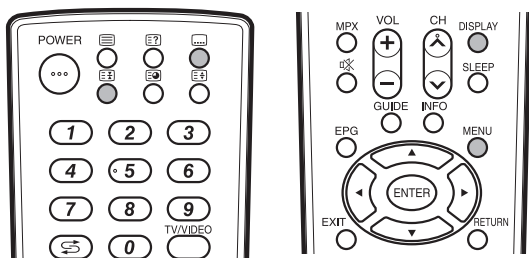
To stop updating Teletext pages automatically, press .

- Press  again to release the hold mode.

## Useful features

### Displaying Subtitle

You can display several subtitles as they are transmitted.



- 1 Press **E1** to display the subtitle.
  - Subtitle is updated by information sent by the broadcasting station.
  - To stop updating subtitle automatically, press **E2**.
- 2 Press **E1** to exit the subtitle screen.

#### NOTE

- Subtitle will not be displayed when the service does not contain the subtitle information.

### Time display

You can display the time information included in the Teletext broadcast.

#### NOTE

- Skip step 1 if receiving DTV broadcasts.

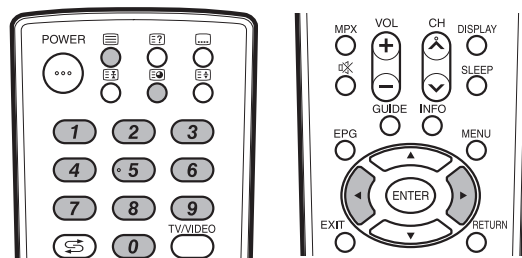
- 1 Select a TV channel providing Teletext information. (The time information is automatically captured.)
- 2 Press **DISPLAY**. The channel display will appear on the display.
- 3 Press **DISPLAY** again within the three-second interval the channel display is on the screen. Time information will display on the lower left of the screen for about three seconds.
- 4 Even when you change the TV channel, you can display the time information with steps 2 to 3 above.

#### NOTE

- The time display cannot be stored once the power is turned off. When you turn on the power, perform steps 1 to 4 again.
- If acquired successfully the time information will appear in the upper-right corner of the screen by pressing **MENU**.

### Displaying Subpages

You can display several subpages as they are transmitted.



- 1 Press **E1** to display Teletext.
- 2 Press **E3** to display the subpage as shown below.
 

**Subpage screen**

— + 0002 00 01 02 03
- 3 Select the desired subpage by using **◀▶**.
  - **0 – 9** directly selects the desired subpage.
- 4 Press **E3** to exit the subpage screen.

#### NOTE

- You cannot display subpage screens in DTV mode.

## Useful features

### Teletext language setting

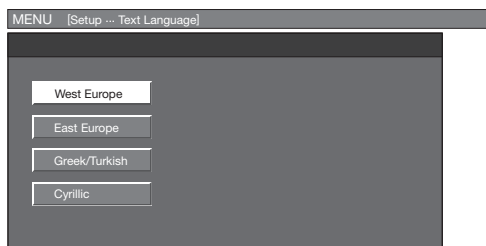
If Teletext information does not display correctly, perform the setting procedure below.  
Select from among 4 kinds of language tables: West Europe, East Europe, Greek/Turkish, Cyrillic.  
Each table is compatible with the Teletext languages listed below.

1 Press **MENU** and the MENU screen displays.

2 Press **◀/▶** to select "Setup".

3 Press **▲/▼** to select "Text Language", and then press **ENTER**.

4 Press **▲/▼** to select receivable teletext broadcasting language in your country, and then press **ENTER**.



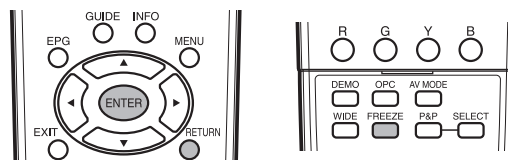
- West Europe - English, French, Scandinavian, Czech, German, Spanish, Italian
- East Europe - Polish, French, Scandinavian, Czech, German, Slovenian/Croatian, Italian, Rumanian
- Greek/Turkish - English, French, Scandinavian, Turkish, German, Spanish, Italian, Greek
- Cyrillic - English, Russian, Estonian, Czech, German, Spanish, Ukrainian, Lettish

#### NOTE

- Teletext can display only when it is sent by a network. Not used to convert between languages.

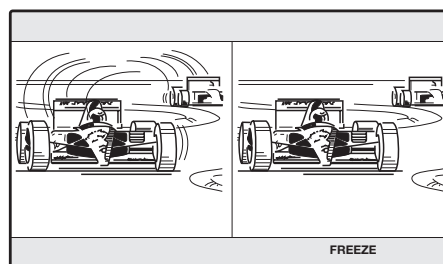
### Freezing images

You can freeze a motion picture on the Display.



1 Press **FREEZE**.

- A moving image displays on the left screen and a still image displays on the right screen. The still image is one frame captured from a moving image at the moment you press **FREEZE**.



(Example)

2 Reshoot the still image by pressing **ENTER**.

- Each time you press **ENTER**, the image on the right screen updates.

3 Press **RETURN** to exit still image.

#### NOTE

- The still image automatically goes out after 30 minutes.

### Output Select

For output the signal to external equipment.

1 Press **MENU** and the MENU screen displays.

2 Press **◀/▶** to select "Option".

3 Press **▲/▼** to select "Input Select", and then press **ENTER**.

4 Press **▲/▼** to select "Input 1", and then press **ENTER**.

5 Press **▲/▼** to select "Output".

#### NOTE

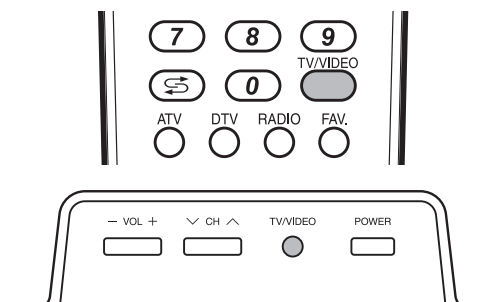
- Only Input 1 can be select to become output.
- HDMI is digital signal, cannot select to output.
- When Input 1 select to become output, please connect composite signal to Input 2.

# Using external equipment

You can connect many types of external equipment to your TV, like a VCR, DVD player, HDTV tuner, game console and camcorder. To view external source images, select the input source from **TV/VIDEO** on the remote control unit or **TV/VIDEO** on the TV.

## Displaying an external equipment image

Explanation here is for the setting when connecting DVD to INPUT1 terminal.



### CAUTION

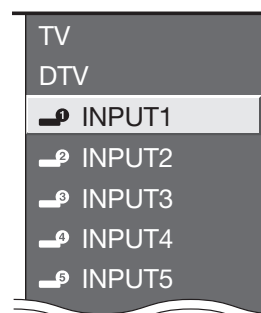
- To protect all equipment, always turn off the TV before connecting to a VCR, DVD player, HDTV tuner, game console, camcorder or other external equipment.

### NOTE

- See pages 54 to 57 for external equipment connection.
- Please refer to the relevant operation manual (VCR, DVD player, etc.) carefully before making connections.
- Each time **TV/VIDEO** is pressed, the input source toggles.
- If the image does not come in clearly, you may need to change the input signal type setting on the "Input Select" menu.
- Refer to your external equipment operation manual for the signal type.

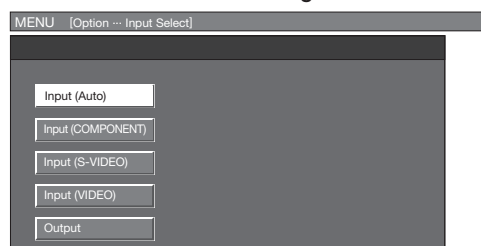
## Displaying a DVD image (Example)

- To watch a DVD image, select "INPUT1" using **TV/VIDEO** on the remote control unit or **TV/VIDEO** on the TV.



- Select the desired signal type on "Input Select" in the "Option" menu. (See page 46.)

### For INPUT1 signal

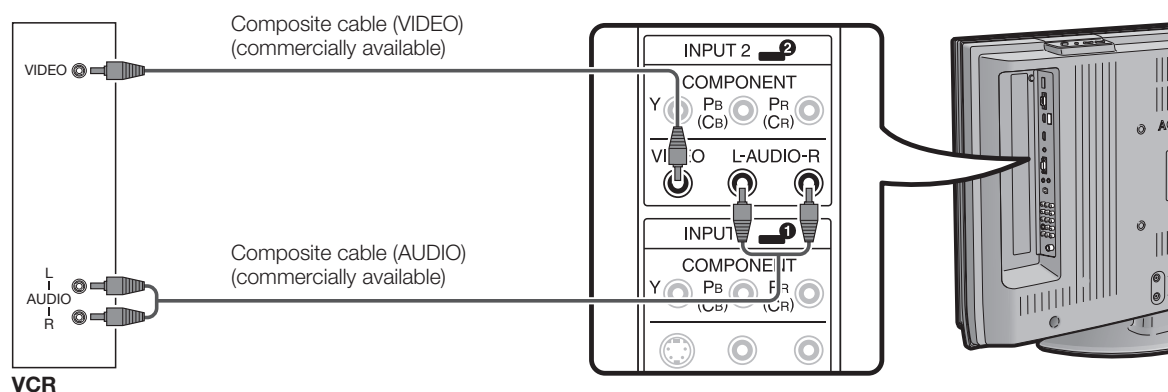


The setting is stored and can be selected.

## Connecting a VCR

You can use the INPUT 1 or INPUT 2 terminals when connecting a VCR and other audiovisual equipment.

To watch an image from this input terminal, you need to select the input source (see page 55) and the input signal type (see page 46).



## Using external equipment

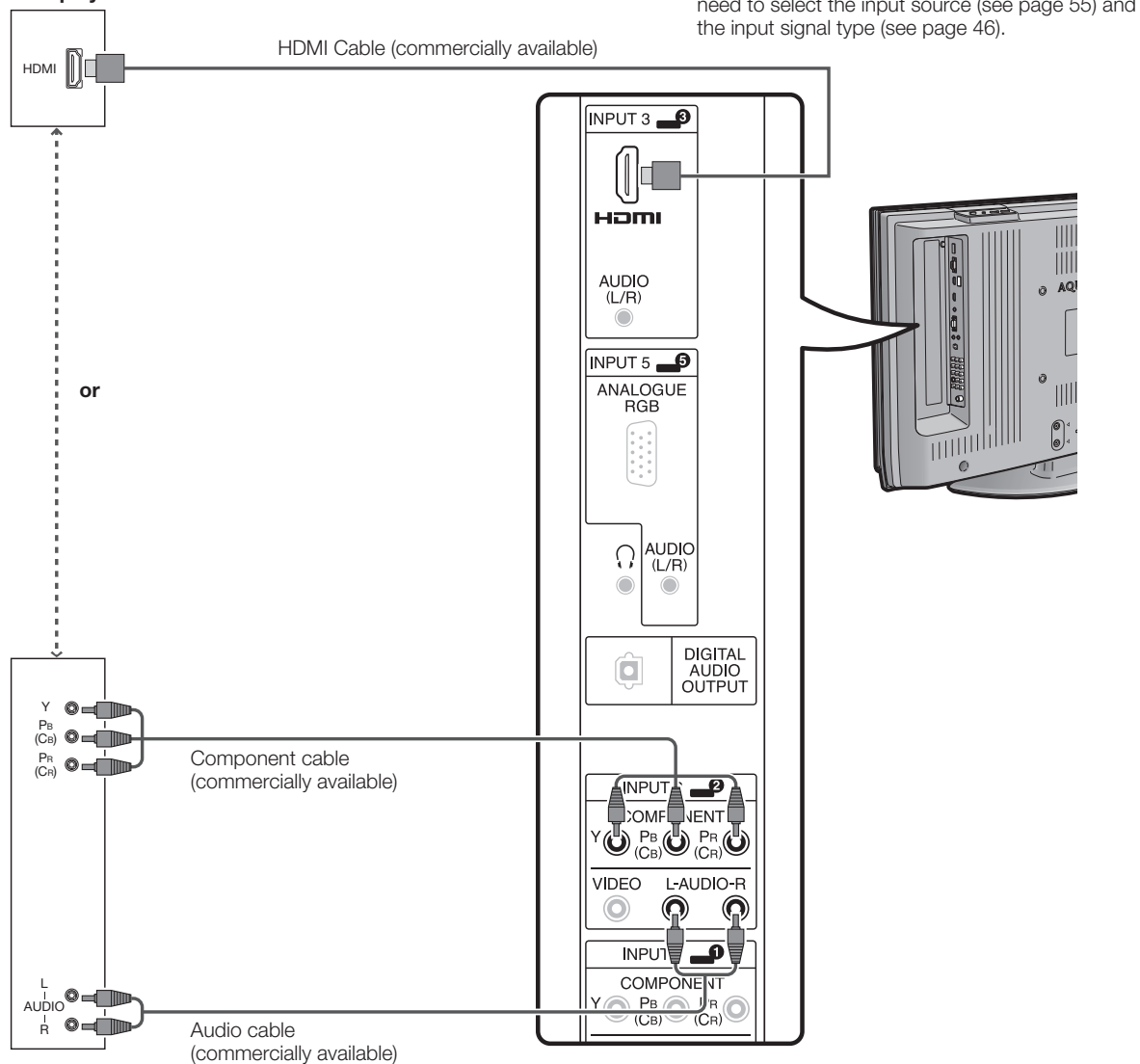
### Connecting a DVD player

You can use the INPUT 1, INPUT 2, INPUT 3 (HDMI) or INPUT 4 (HDMI) terminals when connecting to a DVD player and other audiovisual equipment.

#### NOTE

- When using a DVI-HDMI conversion adaptor, input the Audio Signal from the AUDIO terminal of INPUT 3.

#### DVD player



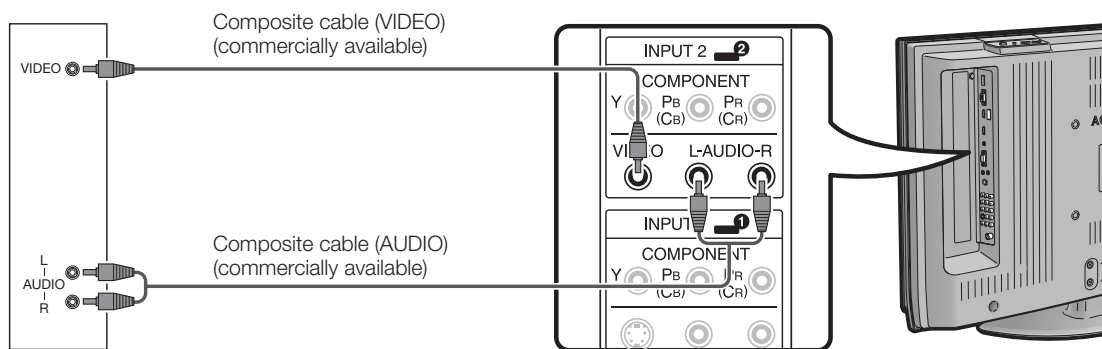
When using component cable, select "Component" for "Input Select" in the menu.

## Using external equipment

### Connecting a game console or camcorder

A game console, camcorder and some other audiovisual equipment are conveniently connected using the INPUT 1 or INPUT 2 terminals.

To watch an image from this input terminal, you need to select the input source (see page 55) and the input signal type (see page 46).

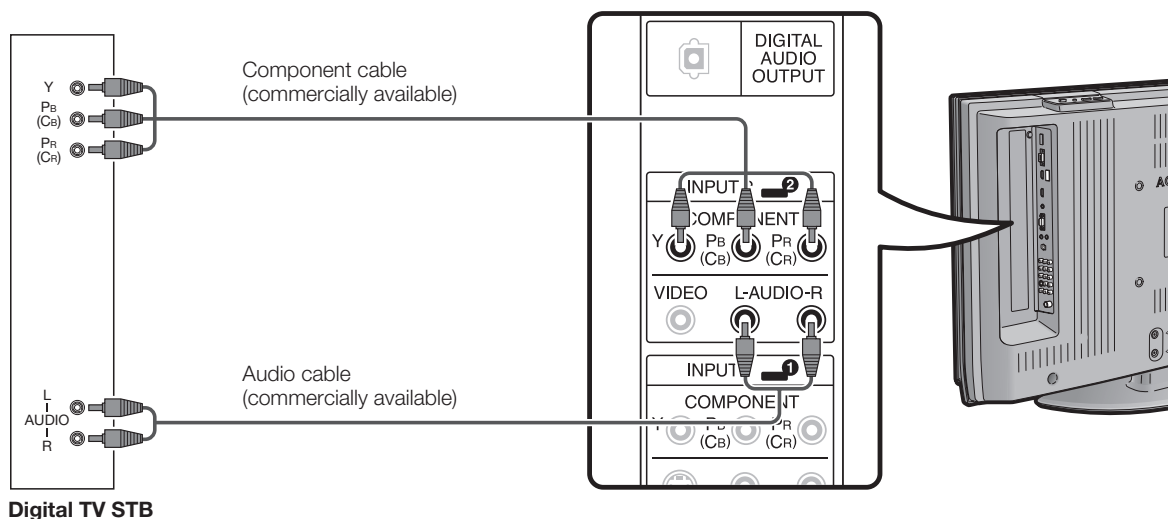


Game console/Camcorder

### Connecting a Digital TV STB (Set Top Box)

You can use the INPUT 1 or INPUT 2 terminal when connecting to a Digital TV STB and other audiovisual equipment.

To watch an image from this input terminal, you need to select the input source (see page 55) and the input signal type (see page 46).



Digital TV STB

When using component cable, select "Component" for "Input Select" in the menu.

Using external equipment

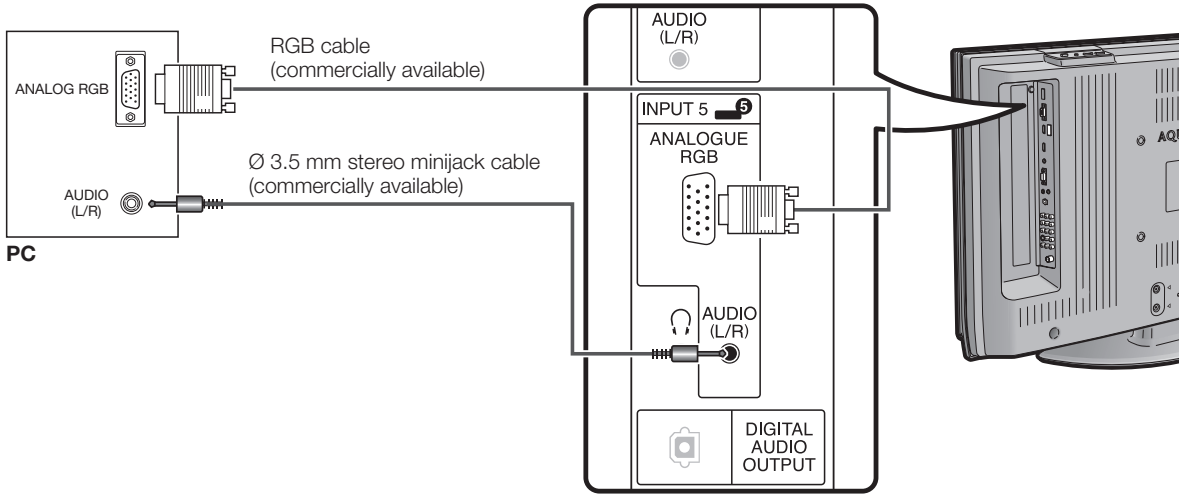
Viewing an image from a PC

Connecting a PC

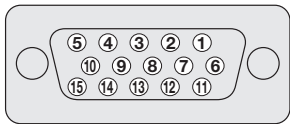
Use the INPUT 5 terminal to connect a PC.

NOTE

- The PC INPUT terminals are DDC1/2B-compatible.
- Refer to page 60 for a list of PC signals compatible with the TV.



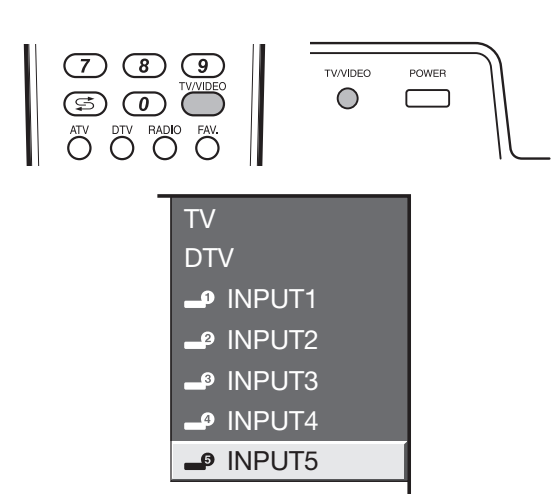
Signal names for 15-pin mini D-sub connector



Pin No.	Signal name	Pin No.	Signal name	Pin No.	Signal name
①	R	⑥	GND (Ground)	⑪	Not connected
②	G	⑦	GND (Ground)	⑫	SDA
③	B	⑧	GND (Ground)	⑬	HD
④	Not connected	⑨	+5V	⑭	VD
⑤	CSYNC	⑩	GND (Ground)	⑮	SCL

NOTE

- Macintosh adaptor may be required for use for some Macintosh computers.
- Pin No. ⑤ is not used for inputting the signal.



Displaying an image from a PC

To view an image from a PC, select "INPUT 5" using **TV/VIDEO** on the remote control unit or **TV/VIDEO** on the TV.

When connecting to a PC, the correct input signal type is automatically detected. (See page 49.)

NOTE

- Each time **TV/VIDEO** is pressed, the input source toggles.

# Appendix

## Troubleshooting

Problem	Possible Solution
<ul style="list-style-type: none"> <li>No power.</li> </ul>	<ul style="list-style-type: none"> <li>Check if you pressed <b>POWER</b> on the remote control unit. (See page 13.) If the indicator on the TV lights up red, press <b>POWER</b>.</li> <li>Is the AC cord disconnected? (See page 7.)</li> <li>Has the power been turned on? (See page 13.)</li> </ul>
<ul style="list-style-type: none"> <li>Unit cannot be operated.</li> </ul>	<ul style="list-style-type: none"> <li>External influences such as lightning, static electricity, etc., may cause improper operation. In this case, operate the unit after first turning the power off the TV or unplugging the AC cord and re-plugging it in after 1 or 2 minutes.</li> </ul>
<ul style="list-style-type: none"> <li>Remote control unit does not operate.</li> </ul>	<ul style="list-style-type: none"> <li>Are batteries inserted with polarity (+, -) aligned? (See page 5.)</li> <li>Are batteries worn out? (Replace with new batteries.)</li> <li>Are you using it under strong or fluorescent lighting?</li> <li>Is a fluorescent light illuminated to remote control sensor?</li> </ul>
<ul style="list-style-type: none"> <li>Picture is cut off.</li> </ul>	<ul style="list-style-type: none"> <li>Is the image position correct? (See page 40.)</li> <li>Are screen mode adjustments such as picture size made correctly? (See pages 40, 43 to 44.)</li> </ul>
<ul style="list-style-type: none"> <li>Strange colour, light colour, or dark, or colour misalignment.</li> </ul>	<ul style="list-style-type: none"> <li>Adjust the picture tone. (See pages 24 to 26 and 46.)</li> <li>Is the room too bright? The picture may look dark in a room that is too bright.</li> <li>Check the colour system setting. (See pages 20 and 48.)</li> <li>Check the input signal setting. (See page 46.)</li> </ul>
<ul style="list-style-type: none"> <li>Power is suddenly turned off.</li> </ul>	<ul style="list-style-type: none"> <li>The unit's internal temperature has increased. Remove any objects blocking vent or clean.</li> <li>Check the power control setting. (See pages 27 to 28.)</li> <li>Is sleep timer set? (See page 15.)</li> </ul>
<ul style="list-style-type: none"> <li>No picture.</li> </ul>	<ul style="list-style-type: none"> <li>Is connection to other equipment correct? (See pages 55 to 58)</li> <li>Has input signal setup been done correctly after connection? (See page 46.)</li> <li>Is the correct input selected? (See page 46.)</li> <li>Is picture adjustment correct? (See pages 24 to 26.)</li> <li>Is the antenna connected properly? (See page 8.)</li> <li>Is "On" selected in "Audio Only"? (See page 47.)</li> </ul>
<ul style="list-style-type: none"> <li>No sound.</li> </ul>	<ul style="list-style-type: none"> <li>Is the volume too low? (See page 15.)</li> </ul>
<ul style="list-style-type: none"> <li>The TV sometimes makes a cracking sound.</li> </ul>	<ul style="list-style-type: none"> <li>This is not a malfunction. This happens when the cabinet slightly expands and contracts according to change in temperature. This does not affect the TV's performance.</li> </ul>

## Troubleshooting (DTV)

Problem	Possible Solution
<ul style="list-style-type: none"> <li>No picture or no sound.</li> </ul>	<ul style="list-style-type: none"> <li>Is the correct input source selected? (See page 46.)</li> </ul>
<ul style="list-style-type: none"> <li>Block noise appears on the screen.</li> </ul>	<ul style="list-style-type: none"> <li>Is the antenna pointing in the correct direction?</li> <li>Check the Signal Level and Quality. (See page 34.)</li> <li>Are physical objects blocking the antenna?</li> <li>Is the antenna or antenna cable compatible with DTV broadcasts?</li> </ul>
<ul style="list-style-type: none"> <li>DTV broadcasts cannot be received.</li> </ul>	<ul style="list-style-type: none"> <li>Is the DTV antenna set up properly?</li> <li>Is the antenna cable connected properly? (See page 8.)</li> <li>Are the channel settings correct? (See pages 34 and 35.)</li> </ul>
<ul style="list-style-type: none"> <li>A specific channel cannot be received.</li> </ul>	<ul style="list-style-type: none"> <li>Check the Signal Level and Quality. (See page 34.)</li> </ul>

### Cautions regarding use in high and low temperature environments

- When the unit is used in a low temperature space (e.g. room, office), the picture may leave trails or appear slightly delayed. This is not a malfunction, and the unit will recover when the temperature returns to normal.
- Do not leave the unit in a hot or cold location. Also, do not leave the unit in a location exposed to direct sunlight or near a heater, as this may cause the cabinet to deform and the LCD panel to malfunction.  
Storage temperature: -20°C to +60°C.

## Appendix

### RS-232C port specifications

#### PC Control of the TV

- When a program is set, the TV can be controlled from the PC using the RS-232C terminal.  
The input signal (PC/video) can be selected, the volume can be adjusted and various other adjustments and settings can be made, enabling automatic programmed playing.
- Attach an RS-232C cable cross-type (commercially available) to the supplied Din/D-sub RS-232C for the connections.

#### NOTE

- This operation system should be used by a person who is accustomed to using PCs.

#### Communication conditions

Set the RS-232C communications settings on the PC to match the communications conditions of the TV. The communications settings of the TV are as follows:

<b>Baud rate:</b>	9,600 bps
<b>Data length:</b>	8 bits
<b>Parity bit:</b>	None
<b>Stop bit:</b>	1 bit
<b>Flow control:</b>	None

#### Communication procedure

Send the control commands from the PC via the RS-232C connector.

The TV operates according to the received command and sends a response message to the PC.

Do not send multiple commands at the same time. Wait until the PC receives the OK response before sending the next command.

#### Command format

Eight ASCII codes + CR

C1	C2	C3	C4	P1	P2	P3	P4	↵
----	----	----	----	----	----	----	----	---

Command 4-digits

Parameter 4-digits

Return code

Command 4-digits: Command. The text of four characters.  
Parameter 4-digits: Parameter 0 — 9, space, ?

#### Parameter

Input the parameter values, aligning left, and fill with space(s) for the remainder. (Be sure that four values are input for the parameter.)

When the input parameter is not correct, "ERR" returns. (Refer to "Response code format".)

0			
0	0	0	9
-	3	0	
1	0	0	
0	0	5	5

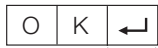
When "?" is input for some commands, the present setting value responds.

?			
?	?	?	?

## Appendix

### Response code format

Normal response



Return code (0DH)

Problem response (communication error or incorrect command)



Return code (0DH)

### Commands

- Commands not indicated here are not guaranteed to operate.

CONTROL ITEM	COMMAND	PARAMETER	CONTROL CONTENTS
POWER SETTING	P O W R	0 _ _ _	POWER OFF (STANDBY)
INPUT SELECTION A	I T G D	_ _ _ _	INPUT SWITCHING (TOGGLE)
	I A V D	* _ _ _	INPUT1 – 5 (INPUT5=PC)
CHANNEL	D C C H	* _ _ _	TV DIRECT CHANNEL (1–99)
	C H U P	_ _ _ _	CHANNEL UP
	C H D W	_ _ _ _	CHANNEL DOWN
INPUT SELECTION B	I N P 1	0 _ _ _	INPUT1 (AUTO)
	I N P 1	1 _ _ _	INPUT1 (COMPONENT)
	I N P 1	2 _ _ _	INPUT1 (S-VIDEO)
	I N P 1	3 _ _ _	INPUT1 (VIDEO)
	I N P 1	4 _ _ _	INPUT1 (OUTPUT)
	I N P 2	0 _ _ _	INPUT2 (AUTO)
	I N P 2	1 _ _ _	INPUT2 (COMPONENT)
	I N P 2	3 _ _ _	INPUT2 (VIDEO)
AV MODE SELECTION	A V M D	0 _ _ _	TOGGLE
	A V M D	1 _ _ _	STANDARD
	A V M D	2 _ _ _	MOVIE
	A V M D	3 _ _ _	GAME
	A V M D	4 _ _ _	USER
	A V M D	5 _ _ _	DYNAMIC (FIXED)
	A V M D	6 _ _ _	DYNAMIC
	A V M D	7 _ _ _	PC

### NOTE

- If an underbar ( \_ ) appears in the parameter column, enter a space.
- If an asterisk ( \* ) appears, enter a value in the range indicated in brackets under CONTROL CONTENTS.

CONTROL ITEM	COMMAND	PARAMETER	CONTROL CONTENTS
VOLUME	V O L M	* * _ _	VOLUME (0–60)
POSITION	H P O S	* * * _	H-POSITION (AV) (–10–10)
	H P O S	* * * _	H-POSITION (PC) (0–180)
	V P O S	* * * _	V-POSITION (AV) (–20–20)
	V P O S	* * * _	V-POSITION (PC) (0–120)
	C L C K	* * * _	CLOCK (0–180)
	P H S E	* * _ _	PHASE (0–15)
WIDE MODE	W I D E	0 _ _ _	TOGGLE
	W I D E	1 _ _ _	NORMAL
	W I D E	2 _ _ _	ZOOM 14:9
	W I D E	3 _ _ _	PANORAMA
	W I D E	4 _ _ _	FULL
	W I D E	5 _ _ _	CINEMA 16:9
	W I D E	6 _ _ _	CINEMA 14:9
	W I D E	7 _ _ _	
MUTE	M U T E	0 _ _ _	TOGGLE
	M U T E	1 _ _ _	MUTE ON
	M U T E	2 _ _ _	MUTE OFF
SURROUND	A C S U	0 _ _ _	SURROUND TOGGLE
	A C S U	1 _ _ _	SURROUND ON
	A C S U	2 _ _ _	SURROUND OFF
DUAL SCREEN	T W I N	0 _ _ _	DUAL SCREEN OFF
	T W I N	1 _ _ _	DUAL SCREEN ON
AUDIO CHANGE	A C H A	_ _ _ _	TOGGLE
SLEEP TIMER	O F T M	0 _ _ _	OFF
	O F T M	1 _ _ _	SLEEP TIMER 30 MIN
	O F T M	2 _ _ _	SLEEP TIMER 1 HOUR
	O F T M	3 _ _ _	SLEEP TIMER 1 HOUR 30 MIN
	O F T M	4 _ _ _	SLEEP TIMER 2 HOUR
	O F T M	5 _ _ _	SLEEP TIMER 2 HOUR 30 MIN
	O F T M	6 _ _ _	

## PC compatibility chart

	Resolution	Horizontal Frequency	Vertical Frequency	VESA Standard
VGA	640 × 480	31.5 kHz	60 Hz	✓
	640 × 480	37.9 kHz	72 Hz	✓
	640 × 480	37.5 kHz	75 Hz	✓
SVGA	800 × 600	35.1 kHz	56 Hz	✓
	800 × 600	37.9 kHz	60 Hz	✓
	800 × 600	48.1 kHz	72 Hz	✓
	800 × 600	46.9 kHz	75 Hz	✓

	Resolution	Horizontal Frequency	Vertical Frequency	VESA Standard
XGA	1024 × 768	48.4 kHz	60 Hz	✓
	1024 × 768	56.5 kHz	70 Hz	✓
	1024 × 768	60.0 kHz	75 Hz	✓
WXGA	1360 × 768	47.7 kHz	60 Hz	✓

DDC is a registered trademark of Video Electronics Standards Association.  
Power Management is a registered trademark of Sun Microsystems, Inc.  
VGA and XGA are registered trademarks of International Business Machines Corp.

## Appendix

### Specifications

Item		Model	LC-32D53X	LC-37D53X
LCD panel			32" (80 cm) Advanced Super View & BLACK TFT LCD	37" (94 cm) Advanced Super View & BLACK TFT LCD
Number of dots			3,147,264 dots (1366 × 768 × 3 dots)	
Video Colour System			PAL/SECAM/NTSC 3.58/NTSC 4.43/PAL 60	
TV Function	TV-Standard		PAL: B/G, D/K, I SECAM: B/G, D/K, K/K <sub>1</sub> NTSC: M	
	Receiving Channel	Digital	DVB-T	
		VHF/UHF	44.25—863.25 MHz	
		CATV	S1—S41ch (including Hyperband)	
	Digital Terrestrial Broadcast		VHF/UHF 174-230 MHz, 520-582 MHz, 582-820 MHz	
	TV-Tuning System		Auto Preset 99 ch	
	STEREO/BILINGUAL		NICAM: B/G, I, D/K A2 stereo: B/G	
Brightness			450 cd/m <sup>2</sup>	
Backlight life			60,000 hours (at Backlight Standard position)	
Viewing angles			H : 176° V : 176°	
Audio amplifier			10W × 2	
Speakers			10 × 4 cm 2pcs, Ø 2 cm 2pcs	
Terminals	Rear	ANTENNA IN	UHF/VHF 75 Ω DIN type	
		INPUT 1	VIDEO in, VIDEO out, AUDIO in, AUDIO out, S-VIDEO in, COMPONENT in (480I, 576I, 480P, 576P, 720P/50Hz, 720P/60Hz, 1080I/50Hz, 1080I/60Hz)	
		INPUT 2	VIDEO in, AUDIO in, COMPONENT in (480I, 576I, 480P, 576P, 720P/50Hz, 720P/60Hz, 1080I/50Hz, 1080I/60Hz)	
		INPUT 3	HDMI (HDMI input) (480P, 576P, 720P/50Hz, 720P/60Hz, 1080I/50Hz, 1080I/60Hz), AUDIO in	
		INPUT 4	HDMI (HDMI input) (480P, 576P, 720P/50Hz, 720P/60Hz, 1080I/50Hz, 1080I/60Hz)	
		INPUT 5 (PC INPUT)	15 pin mini D-sub, AUDIO in (Ø 3.5mm jack)	
		RS-232C	9 pin D-sub male connector	
		DIGITAL AUDIO OUTPUT	Optical Digital audio output	
OSD language	Analogue		English/Simplified Chinese/Traditional Chinese/Arabic	
	Digital		English	
Power Requirement			AC 110—240 V, 50/60 Hz	
Power Consumption			160 W (0.7 W Standby)	183 W (0.7 W Standby)
Weight	without stand		17.5 kg	21.5 kg
	with stand		19.5 kg	24.0 kg
Operating Temperature			0°C — 40°C	

- As a part of policy of continuous improvement, SHARP reserves the right to make design and specification changes for product improvement without prior notice. The performance specification figures indicated are nominal values of production units. There may be some deviations from these values in individual units.

### Optional accessory

The listed optional accessory is available for the LCD colour TV. Please purchase it at your nearest shop.

- Additional optional accessories may be available in the near future. When purchasing, please read the newest catalogue for compatibility and check the availability.

Part name	Model number
Wall mount bracket (for LC-32D53X/ LC-37D53X)	AN-37AG2



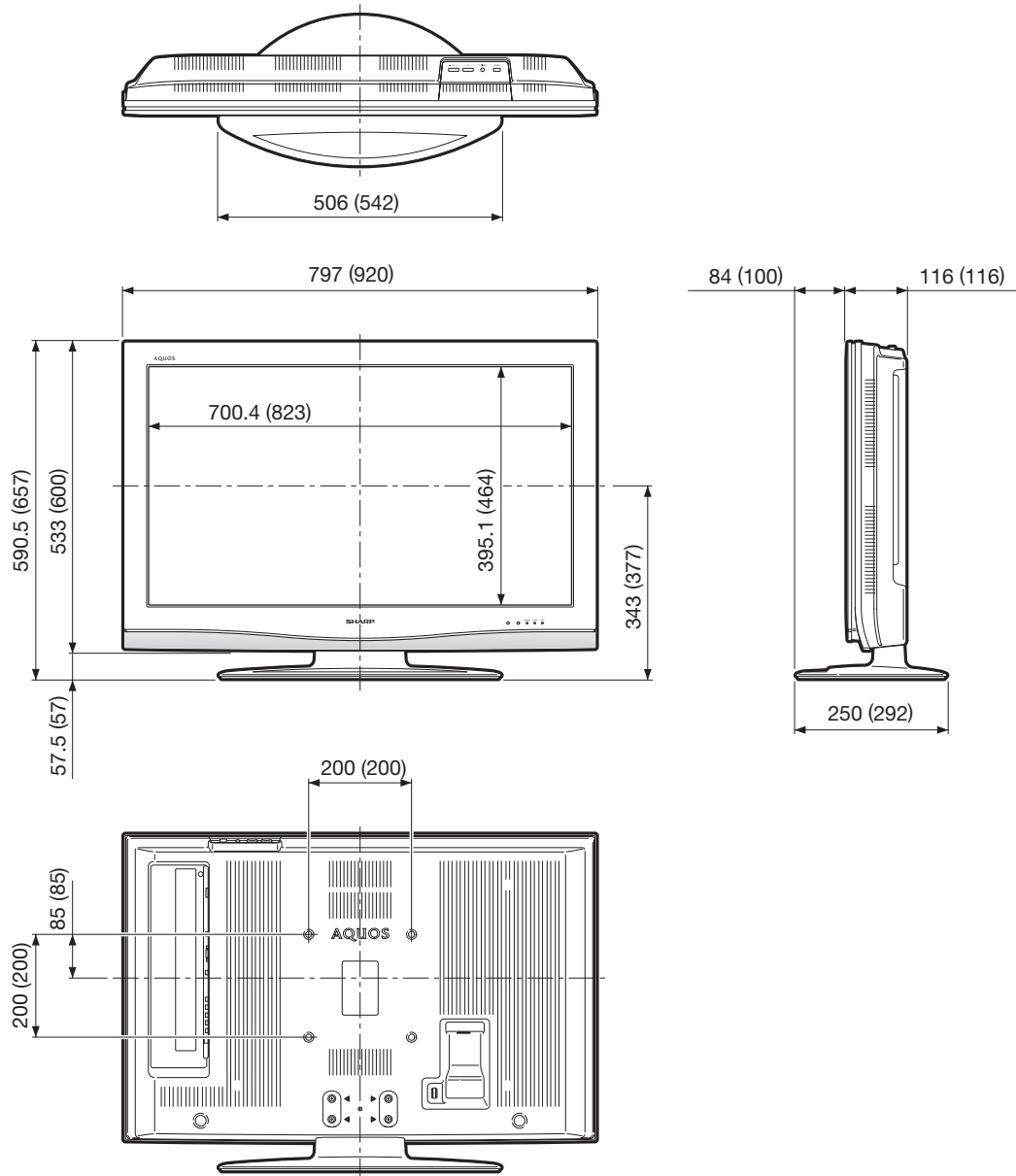
# Dimensional drawings

LC-32D53X, LC-37D53X

Unit: mm

## NOTE

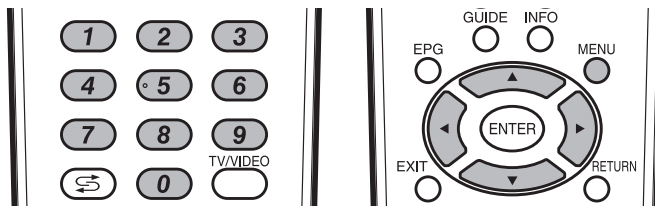
- Figures within parentheses are for LC-37D53X.





## CLEARING THE PASSWORD

If you forget the password, clear the password using the following procedure.



1

Press **MENU** and the MENU screen displays.

2

Press ◀/▶ to select "Setup".

3

Press ▲/▼ to select "Child Lock", and then press **ENTER**.

4

The password input screen displays.

5

If you enter "3001" using **0 – 9**, the "Child Lock" setting menu will be displayed.

6

Enter the 4-digit number as a password using **0 – 9**. (See page 38.)

The new password is now set.



The Password is

--	--	--	--

.

### NOTE

- As a precautionary measure, make a note of your password above, scissor it from this manual, and keep it in a familiar place.



**SHARP**

FOR LOCATION ENQUIRIES WITHIN

**AUSTRALIA**

REGARDING YOUR LOCAL

**SHARP APPROVED SERVICE CENTRE**

VISIT OUR WEBSITE AT

**[www.sharp.net.au](http://www.sharp.net.au)**

OR CALL SHARP CUSTOMER CARE

**1300 135 022**

(LOCAL CALL COST APPLY WITHIN AUSTRALIA)

SHARP CORPORATION OF AUSTRALIA PTY LTD

**SHARP**

FOR LOCATION ENQUIRIES WITHIN

**NEW ZEALAND**

REGARDING YOUR LOCAL

**SHARP APPROVED SERVICE CENTRE**

VISIT OUR WEBSITE AT

**[www.sharp.net.nz](http://www.sharp.net.nz)**

CONTACT YOUR SELLING DEALER/RETAILER

OR CALL

**SHARP CUSTOMER SERVICES**

TELEPHONE: 09 573 0111

FACSIMILE: 09 573 0113

SHARP CORPORATION OF NEW ZEALAND LIMITED

SPform019(JUNE 2004)



# SHARP

## WARRANTY

### *Consumer Electronic Products*

### Congratulations on Your Purchase!

This Sharp product is warranted against faults in materials and manufacture for a period of twelve (12) months from the date of original purchase.

If service is required during the warranty period, please contact your nearest Sharp Approved Service Centre. These repairs would be carried out at no charge to the owner, subject to the conditions specified herein.

The owner is responsible for any transportation and insurance costs if the product has to be returned for repair.

This warranty does not extend to accessories or defects or injuries caused by or resulting from causes not attributable to faulty parts or the manufacture of the product, including but not limited to, defect or injury caused by or resulting from misuse, abuse, neglect, accidental damage, improper voltage, liquid spillage, vermin infestation, software, or any alterations made to the product which are not authorised by Sharp.

Please retain your sales documentation, as this should be produced to validate a warranty claim.

This warranty is in addition to and in no way limits, varies or excludes any express and implied rights and remedies under any relevant legislation in the country of sale.

### IMPORTANT

### DO NOT RETURN THIS DOCUMENT TO SHARP

For your reference, please enter the particulars of your purchase below and retain, with your purchase documentation.

Model No. \_\_\_\_\_

Serial No. \_\_\_\_\_

Date of Purchase \_\_\_\_\_

Retailer \_\_\_\_\_

**SHARP**  
SHARP CORPORATION OF  
AUSTRALIA PTY. LIMITED  
ABN 40 003 039 405  
1 Huntingwood Drive  
Huntingwood NSW2148  
SHARP CORPORATION OF  
NEW ZEALAND LIMITED  
59 Hugo Johnston Drive  
Penrose, Auckland  
SPform030 (JUNE 2004)

IMPORTANT NOTICE: This warranty applies only to products sold in Australia & New Zealand

# SHARP®

## SHARP CORPORATION



Printed on post-consumer recycled paper.

Printed in Malaysia  
TINS-D264WJZZ  
07P08-MA-NP

